B0350-1(a)

AT&T Long Lines

Telephones

a Statistical Compilation
as of January, 1981

The World's Telephones

a Statistical Compilation as of January 1, 1981

Alexander Graham Bell must have known.

From the historic moment he spoke into the mouthpiece of the world's first telephone, a device that spawned today's telecommunications industry, telephones have played an integral part in the world's business and social lifestyles.

Continuing growth in the number of telephones attests to the fact that, whether in Pittsburgh or Portugal, the telephone is proving essential to world communications.

In 1980, for the first time since 1912 when an inventory of the world's telephones first was taken, the number of reported phones throughout the world surpassed the half-billion mark – 508,286,000, to be exact. This increase of 36.1 million telephones above the previous year's level represents a 7.6 percent unadjusted increase in the number of telephones in countries responding to our questionnaire. The adjusted percent increase 6.1 excludes data from countries not represented in both reporting periods.[12]

In the decade ending in 1980, the number of reported telephones increased an astonishing 237.6 million, or 87.8 percent, unadjusted.

Not all areas, of course, submit statistics on the number of telephones within their borders. But based on the total population of countries that do respond, the ratio of reported total telephones per 100 people increased during 1980 to an unadjusted 19.1 percent, up from the previous year's 16.4 percent. The adjusted ratio increased to 19.9 percent, up 1 percent from the previous year's 18.9 percent.

An informal survey of several sources suggests that unreported telephones could number as many as 15.9 million. If confirmed, this could mean a ratio of almost 12 telephones for every 100 people.

Of course, facts and figures such as these could not be compiled without the cooperation of telephone administrations and operating companies throughout the world, which graciously contribute each year to publication of "The World's Telephones." We thank them for their assistance.

Overseas Department
July 1982

THE WORLD'S TELEPHONES

is published annually for the management and technical staff of the Bell System and the telephone administrations and companies worldwide to promote and extend knowledge of global telecommunications. It provides a picture of the global telephone distribution and facilities by countries within geographical regions. The number of telephones in relation to the population served is a significant measure of comparative development. The ever-higher number of telephones is symptomatic of the increased usage of the telephone (for local, interurban and international calling) and of the demand for a great variety of new products and services.

The data in the World's Telephones have taken a year to collect, compile and publish. The statistics are based on questionnaires sent to the telephone administrations and companies throughout the world.

A limited number of copies are made available, on request, to educational institutions, libraries and members of the worldwide telecommunications industry.

Permission to reprint material should be obtained from the editor and AT&T's The World's Telephones should be credited.

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Suggested Definitions

AUTOMATIC SWITCHING. This refers to equipment in which switching operations are performed by electrically controlled apparatus without the intervention of operators.

ELECTROMECHANICAL CONTROL, (EMSS). This refers to any automatic *electro*mechanical switching system control using relays and/or electromechanical switches to perform logic, and refers also to the types of control employed in the public telephone switching office to which the serving telephones are connected.

ELECTRONIC CONTROL, (ESS). This refers to any automatic *electronic switching system* control using electronic devices to perform logic, and also refers to the type of control employed in the public telephone switching office to which the serving telephones are connected.

BUSINESS TELEPHONES. This refers to those main and extension telephones used in business service.

BUSINESS TELEPHONE SERVICE. This refers to service that is usually provided at a business rate and where the service use is primarily or substantially for business purposes, (purposeful activity-commercial or mercantile activity engaged in as a means of livelihood.) Often a business telephone service may require a type of a business telephone number listing.

BUSINESS SUBSCRIBER LINE. This refers to the telephone line connecting the telephone exchange to the subscriber's business station/telephone.

CAPABLE OF INTERNATIONAL SERVICE. Represents those telephones capable of originating a direct international call or an international transit call by either subscriber's trunk dialing, trunk operator dialing or manual transmission.

CITY. Large locality, with legally fixed boundaries and administratively recognized urban status which is easily characterized by some form of local government. (Page 21, 1978 edition of United Nations Demographic Yearbook).

COIN BOX TELEPHONES. Refers to a telephone set equipped with a device for collecting coins in payment for telephone calls. Coin box telephone service refers to that service offered by means of a special equipment permitting outgoing telephone calls after insertion of adequate coin(s) or token(s) and, without payment, incoming calls.

COMMON BATTERY/CENTRAL BATTERY/SYSTEM. Refers to a system in which the energy for signalling and speaking is drawn from a power installation at the exchange.

CONNECTING WITH THE UNITED STATES refers to the total number of telephones in service for a defined area outside of the United States that may be connected automatically or manually to any telephone within the United States through a telephone company central office exchange. Such an exchange may be operated by the American Tel. & Tel. Company and its operating subsidiaries (Bell System) or any of the 1483 independent (non-Bell) telephone companies which comprise the United States telephone industry.

CONVERSATIONS/CALLS/TELEPHONE MESSAGES. Refers to the actual number of conversations, or number of minutes, pulses or other measuring units, as identified, for conversations.

CONVERSATION/CALL is the effective use made of a connection set-up between the calling and the called station.

TELEPHONE MESSAGE has been provisionally defined as an effective call (a call that has been answered at the other end) over a connection established between the calling and called stations. For the purpose of this publication, we will consider the phrase "telephone conversation" synonymous with "telephone message".

COUNTRY CODE is the name given to a combination of 1, 2 or 3 digits characterizing a country in the World Number Zone Plan and serving to route an international call to that country automatically. The CCITT has assigned 176 individual country codes for international semi-automatic and automatic telephone service. These 176 individual country codes account for 186 countries and territories. For more information, please refer to CCITT-CCIR Paris 1980 "General Plan for the Development of the Interregional Telecommunication Network – Part I." (A listing of the individual country codes appears on page of this edition.)

DIRECT CIRCUITS/DIRECT CONNECTIONS/DIRECT SERVICE. Refers to a telephone connection set-up by means of one or more single international circuits. A *direct transit* (international) circuit is generally referred to as an international circuit passing through one or more transit countries and having no transit exchange. For the purpose of this publication, we will consider these as Direct Circuits/Direct Connections/Direct Services.

EMPLOYEES. Refers to those permanent members of a telephone administration or company who work for wages and are fully involved with furnishing and supporting telephone service for public use. Excluded are occasional employees, those on military leaves of absence, and those on leaves in excess of one month.

MANAGEMENT EMPLOYEES. Generally refers to those employees classified as: Officials, Managers, Professionals and Semi-Professionasl.

TECHNICAL (non-management) EMPLOYEES. Generally refers to those employees classified as: technicians, sales workers, office and clerical workers, skilled, semi-skilled and service workers.

EXTENSIONS TO MAIN TELEPHONE. These are telephones which are associated with and are in addition to the main telephone and are connected to the same exchange line, EXCLUDING P.B.X. EXTENSIONS.

INTERNATIONAL CALL. Refers to any call for a destination beyond the national boundaries of the calling station.

INTERNATIONAL CIRCUIT. Refers to all the means (channels, relay sets, etc.) between two switching exchanges (manual or automatic). Such a circuit is called an "international circuit" when it directly connects two international exchanges in two different countries.

INTERNATIONAL SUBSCRIBER DIALING (ISD). Refers to the direct calling by the calling subscriber of the distant (international) called subscriber, the switching being effected automatically. May be considered synonymous with the phrases "International Direct Dialing" and "International Direct Distance Dialing".

INTERNATIONAL TRANSIT CALL. Refers to a call between two telephone stations established by means of more than one international telephone circuit.

INTERURBAN CALL. Refers to any call for a destination outside the local service area of the calling station.

LOCAL CALL. Refers to any call for a destination within the local service area of the calling station.

LOCAL CALLING AREA. Refers to that area within which subscribers can be called by another subscriber, located in the same area, without incurring an extra charge. The area may be served by one or more exchanges (central offices).

Local Calling Area and Exchange Area are sometimes used interchangeably.

MAGNETO. This term refers to a magnetoelectric machine: an alternator (an AC generator) equipped with permanent magnets to generate current. Application in telephony generally refers to a hand cranked two pole generator found in obsolete telephone sets and switchboards to produce ringing signals of approximately 16-20 Hz AC.

MAIN TELEPHONES. These are telephones that are connected directly to the exchange either by an individual or shared line. It should include the principal telephone of each party on a party line. This definition excludes telephones that are manually or automatically connected to the exchange through a private branch switchboard. It also excludes extension telephones, i.e. telephones that have been added to an individual or shared line to extend the telephone service to other parts of the subscriber's home or business premises.

NUMBER OF TELEPHONES PER 100 POPULATION. Represents the total number of telephone instruments for each 100 adults and children in the reported population. This data provides a standard measurement of the telephone market (instruments and their usage) penetration by countries within geographical regions.

POPULATION represents the latest available census, or estimate, as reported by the respective telephone administration or company, for their country or area. Where possible for Principal Cities, telephone and population data should relate to the identical area, however, frequently the telephone exchange areas may be generally larger than the corporate areas of the cities served. Should the reporting telephone administration or company fail to supply the census data, "The World's Telephones" publication staff will substitute, when possible, and so note the use of United Nation's census data in order to provide a more complete report.

PRINCIPAL CITIES. Within the United States, a principal city is one with a population in excess of 50,000. For other countries and areas, the definition varies and principal cities are designated by each foreign telephone administration or company according to different criteria. In most cases, the cities are the largest, most prominent – such as a capital city – or are world renowned as vacation or tourist locations or have commercial or historical significance.

PRIVATE BRANCH EXCHANGE (P.B.X.)/SWITCHBOARD AND ITS EXTENSIONS. These are telephones connected to the exchange through a private branch exchange switchboard. P.B.X. trunks and switchboard positions are excluded. A switchboard is generally defined as equipment on which switching operations are performed by operators. It serves as a telephone exchange for an individual organization and has connections to a public telephone exchange.

PABX (PRIVATE AUTOMATIC BRANCH EXCHANGE.) Refers to a private telephone system that functions as small, on-premise telephone switching centers. The system permits users to automatically dial other users on the same exchange without requiring the involvement of the switchboard attendant or operator. The system also automatically connects the telephones of the business customer to trunks from a local central office.

PAX (PRIVATE AUTOMATIC EXCHANGE). Refers to a private non-branch exchange that is automatic, unattended and located on a subscriber's premises. The system serves only the subscriber's stations with local and central office trunked services. Glossary of Communications, by Emerson C. Smith as published by Telephony Publishing Corporation, further states: "When equipped with an attendant's switchboard or turret it (PAX) becomes a PABX."

CENTREX/CENTREX SERVICE. The provision to subscribers, by means of a specially equipped public telephone exchange, of services normally available only in PABX's (e.g., internal dialing of PABX type, operator's desk, direct access to the network, direct dialing-in, transfer of calls).

CENTREX-C.O. is Centrex service with the switching equipment located in the Central Office.

CENTREX-CU is Centrex service with the switching equipment located on the customer's premises.

PUBLIC TELEPHONE STATION. Refers to a station available for use of the public, generally on payment of a fee, which may be deposited in a coin box or paid to an attendant.

PULSE METERED/METERED PULSES. Refers to a method of metering calls in which a message unit meter steps periodically with a frequency depending upon the charge period of the day and the distance between the two subscribers in conversation. In the United States it may be known as zone registration. (This definition reprinted in part from the Glossary of Communications by Emerson C. Smith as published by Telephony Publishing Corporation and further clarified by the British TELECOM; International Comparisons Group, Service and Performance Dept. SP1.2.3.)

RESIDENCE TELEPHONES. Refers to those main and extension telephones used in residence service.

RESIDENCE TELEPHONE SERVICE. Refers to service that is usually provided at a residence rate and where the service use is primarily for social and domestic use.

RESIDENCE SUBSCRIBER LINE. Refers to the telephone line connecting the telephone exchange to the subscriber's residence station/telephone.

Suggested Definitions (continued)

SUBSCRIBER. A customer, who may be an individual or an organization, that has agreed to an obligation to pay the necessary fees for the basic telephone service components and related usage.

SUBSCRIBER LINE. Refers to the telephone line connecting the exchange to the subscriber's station.

SUBSCRIBER TRUNK DIALING (STD). A system providing for trunk calls to be obtained by customer dialing and without the intervention of an operator.

TELEPHONE CENTRAL OFFICE. Refers to the switching equipment in a building that provides exchange telephone service for a given geographical area. The building is given a name (Broad Street, etc.) and in some cases there is more than one central office serving the same area. A central office (building) may include more than one central office unit.

> **CENTRAL OFFICE UNIT.** Refers to the switching equipment providing exchange telephone service, up to 10,000 subscriber numbers, designated by one central office code.
>
> **CENTRAL OFFICE AREA.** Refers to the geographical area that is served by a central office. (Synonymous with Wire Center Area.)
>
> **CENTRAL OFFICE ENTITY.** Refers to a group of lines that use common originating equipment; namely the same internal distribution frame in a Step-by-Step office, same marker groups in a Number 5 Crossbar office, the same central control in an ESS office.

(Central Office definition – source: Telephone Glossary – General Terms and Abbreviations; Southern Bell Telephone and Telegraph Company's Planning Dept.; Atlanta, Ga.)

TELEPHONE EXCHANGE. Please refer to Telephone Central Office.

TELEPHONE EXCHANGE AREA. Please refer to Telephone Central Office – Central Office Area.

TELEPHONE SERVICE is the service attributable to a telephone system.

> (The IEEE Standard Dictionary, Electrical and Electronic Terms, 2nd Edition, 1977; defines a telephone system as an assemblage of telephone stations, channels and switching arrangements for their interconnection, together with all the accessories for providing telephone communications.)

TELEPHONE/TELEPHONE SET. Refers to an assembly of apparatus including a telephone transmitter, a telephone receiver, and usually a switchhook and the immediately associated wiring and components.

> **TELEPHONE TRANSMITTER.** An electroacoustic transducer to convert sound energy into electrical energy.
>
> **TELEPHONE RECEIVER.** An electroacoustic transducer to convert electrical energy into sound energy and designed to be applied to the ear.

TOTAL NUMBER OF TELEPHONES represent all telephones which can be connected through a telephone company central office exchange. This figure represents the total number of telephones in service which are available to the general public and are able to be accounted for by a telephone administration or company. This includes:

1. Main telephones (including pay telephone stations).
2. Extension telephones (to main telephones).
3. Private Branch Exchange (PBX) telephones (switchboard and its extensions).

Excluded are private intercommunicating sets and private line telephones which can not be connected through a telephone company central office exchange and which do not have connection with a commercial system.

TOTAL NUMBER OF HOUSEHOLDS. The concept of household is based on the arrangements made by persons, individually or in groups, for providing themselves with food or other essentials for living. A household may be either: (a) a one-person household, that is, a person who makes provision for his own food or other essentials for living without combining with any other person to form part of a multi-person household, or (b) a multi-person household, that is, a group of two or more persons who make common provision for food or other essentials for living. The persons in the group may pool their incomes and have a common budget to a greater or lesser extent; they may be related or unrelated persons, or a combination of both. Persons occupying hotels, boarding and lodging houses should be distinguished as members of one-person or multi-person households on the basis of arrangements which they make for providing themselves with the essentials for living. Personnel of institutions, not living in dormitories or similar accommodations, should be treated in the same way. /United Nations Yearbook Definition/.

> **LIVING QUARTERS.** Defined as structurally separate and inclusive places of a bode which are constructed or converted for human habitation and which are occupied and used for such habitation. (U.N. International Census Recommendations, 1980.)

TRUNK OPERATOR DIALED. Refers to the direct calling of the called subscriber by an operator at the outgoing (international) exchange with automatic setting-up of the connection.

Suggested Definitions (continued)

TYPE OF OPERATION. This applies to the actual operation rather than ownership. Systems which are government-owned in whole or in part may be privately operated.

NATIONAL GOVERNMENT – relating to a nation; belonging to, maintained or operated by the federal government.

STATE GOVERNMENT – refers to one of the constituent units of a nation having a federal government.

MUNICIPAL GOVERNMENT – relating to a municipality having local self-government and restricted to one locality.

General Abbreviations and Symbols

CCITT The International Telegraph and Telephone Consultative Committee

EMSS ElectroMechanical Switching System – Any switching system control using relays and/or electro-mechanical switches to perform logic.

ESS Electronic Switching System – Any switching system control using electronic devices to perform logic.

GEO. SCOPE Geographical Scope – Please refer to ★.

ISD International Subscriber Dialing (may be considered synonymous with the phrases "International Direct Dialing" and "International Direct Distance Dialing"). Refers to the direct calling by the calling subscriber of the distant (international) called subscriber, the switching being effected automatically.

ITU International Telecommunications Union; Geneva, Switzerland.

LD Long Distance subscriber dialing for calls beyond the Local calling area (interurban toll calls).

n.a. The abbreviation used for data not available. This abbreviation is generally used to advise that the reporting country or area is unable to provide a given category of data.

n.r. The abbreviation used for non-reporting. This abbreviation is intended to signify those countries and territories that did not respond to our request for current data on their telephone systems for this edition. The abbreviation n.r. with a notation such as $n.r.^{80}$ or $n.r.^{81}$, signifies that the reporting country did not respond to the request for data in 1980 or 1981. When the abbreviation n.r. carrys a notation 80/1 ($n.r.^{80/1}$), it signifies that the respective country did not respond for 1980 and 1981.

NBR. Number

STD Subscriber Trunk Dialing: A system providing for trunk calls to be obtained by customer dialing and without the intervention of an operator. (British Post Office Telecommunications Management Services Department.)

TWTs The World's Telephones.

– An indicator of data not furnished by reporting country or area with no advisement as to status of its availability. Also used as an indicator of a computed entry being omitted due to the lack of reported data.

***** Reported as estimated data by Responding Country.

< less than

≪ is much less than

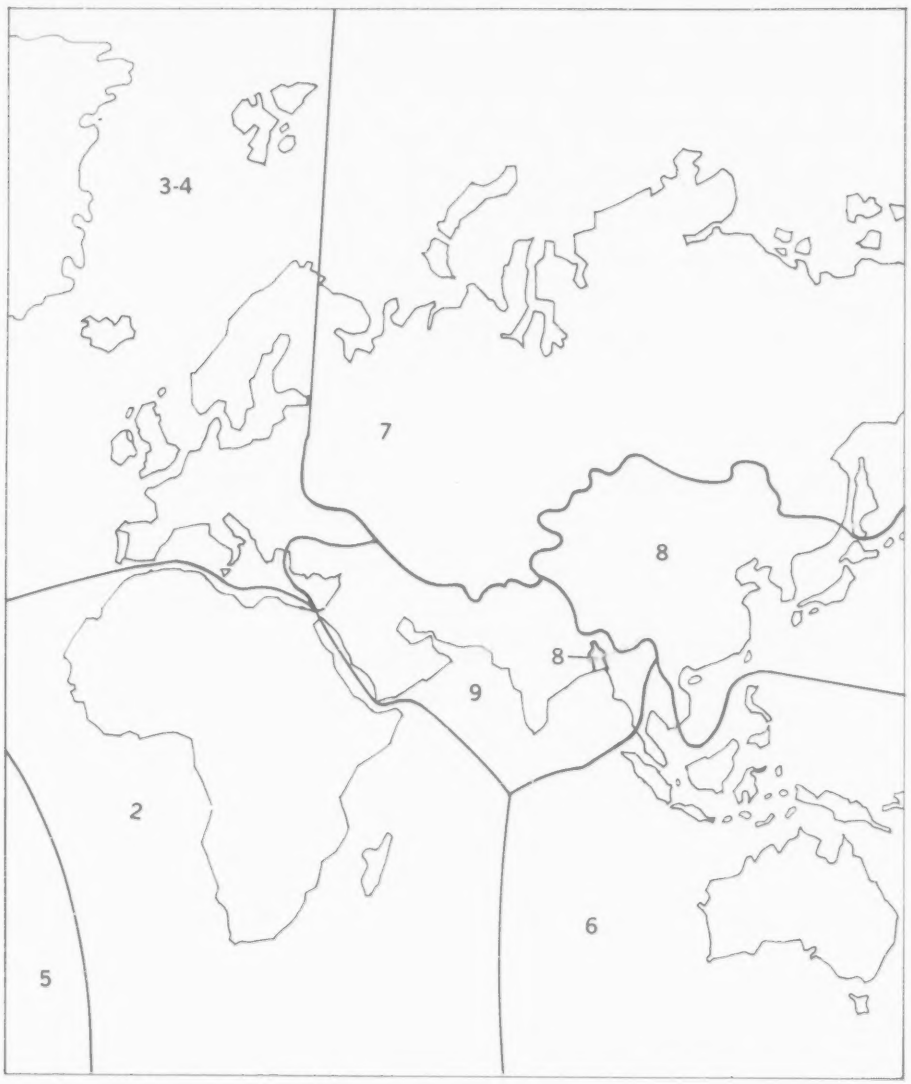
★ In general, data are for telephone exchange or zone areas (geographical scope), the boundaries of which are not necessarily coterminous with those of the city. The code letter appearing after the city names indicate the extent of the telephone exchange in relation to the area of the city as follows:
(A) The exchange serves the entire city, and also serves beyond the city.
(B) The exchange serves the entire city but not beyond it.
(C) The exchange serves only part of the city, but it also serves beyond the city.
(D) The exchange serves only part of the city, and it does not serve beyond the city. Please refer to △.

△ Some distortion is possible between the total of the reported cities' counts for total telephones, main telephones and populations and that shown for the country's or area's reported data for these categories due to an overlapping of exchange and service areas in relation to census areas. Please refer to ★.

‡ Denotes unassigned CCITT individual country code. Using the international telephone world numbering zone plan as a guide, the listing is tentatively based on its relative geographic location.

General Note

Calculations are subject to round off error. Thus, the least signifcant figure of a computer value may reflect this effect. For clarity and presentation, however, this possible variation is not explicitly stated in the table entries.



THE INTERNATIONAL TELEPHONE WORLD NUMBERING ZONE PLAN

The International Telegraph and Telephone Consultative Committee (C.C.I.T.T.) issues recommendations concerning telephone message service. The United States and other countries follow these recommendations so that compatibility of operation, transmission and services are possible for international telephone communications.

One of the recommendations relates to a worldwide numbering plan which provides each customer with a unique international telephone number.

In 1963, a special group of the CCITT developed a numbering plan for all of the member countries of the United Nations. The plan is based on the level of national telephone development forecast by each country for the year 2000.

The plan assumes "All Number Calling" and assigns to each country a country code of 1, 2 or 3 digits. Thus, a world telephone number consists of the country code followed by the national number of the subscriber's station. The plan provides for a maximum of 12 digits in the world number with the actual number of digits varying from country to country and within a country. The number of national telephones forecast for the year 2000 determined the number of digits in the country code. Those countries with the highest requirements have been assigned a single digit code and those with the lowest requirements have been assigned a three digit country code.

A country code is not always assigned to a single country. Those special zones of the world wherein a number of countries have or plan to have an integrated telephone numbering scheme, have been assigned a single country code which applies to

International Telephone World Numbering Zones

all of the sovereign countries within that integrated numbering plan. Because the grouping of countries increases the collective telephone requirements for the year 2000, these two special cases, North America and the Union of Soviet Socialist Republics, have been assigned single digit country codes and each constitutes a separate World Zone.

The specific assignment of country codes was achieved by dividing the world into eight geographic zones (World Zones) and assigning a digit to each zone. All countries within a zone are assigned codes beginning with that digit. Because Europe consists of a great number of countries with highly developed telephone networks requiring more two-digit country codes that can be accommodated by a single initial digit, two zone digits have been assigned. The identity of the World Zones and the zone digits assigned to each are shown below:

1	– North America
2	– Africa
3 and 4	– Europe
5	– South and Central America
6	– South Pacific
7	– Union of Soviet Socialist Republics
8	– Far East
9	– Middle East and South-East Asia

Composition of national telephone numbers are determined by each individual country. Therefore, there are many variations in national numbering plans.

This edition of The World's Telephones incorporates a format and additional data relative to the International Telephone World Numbering Zone plan.

Table 1:
Telephones by World Regions
Reported data are as of January 1, 1981

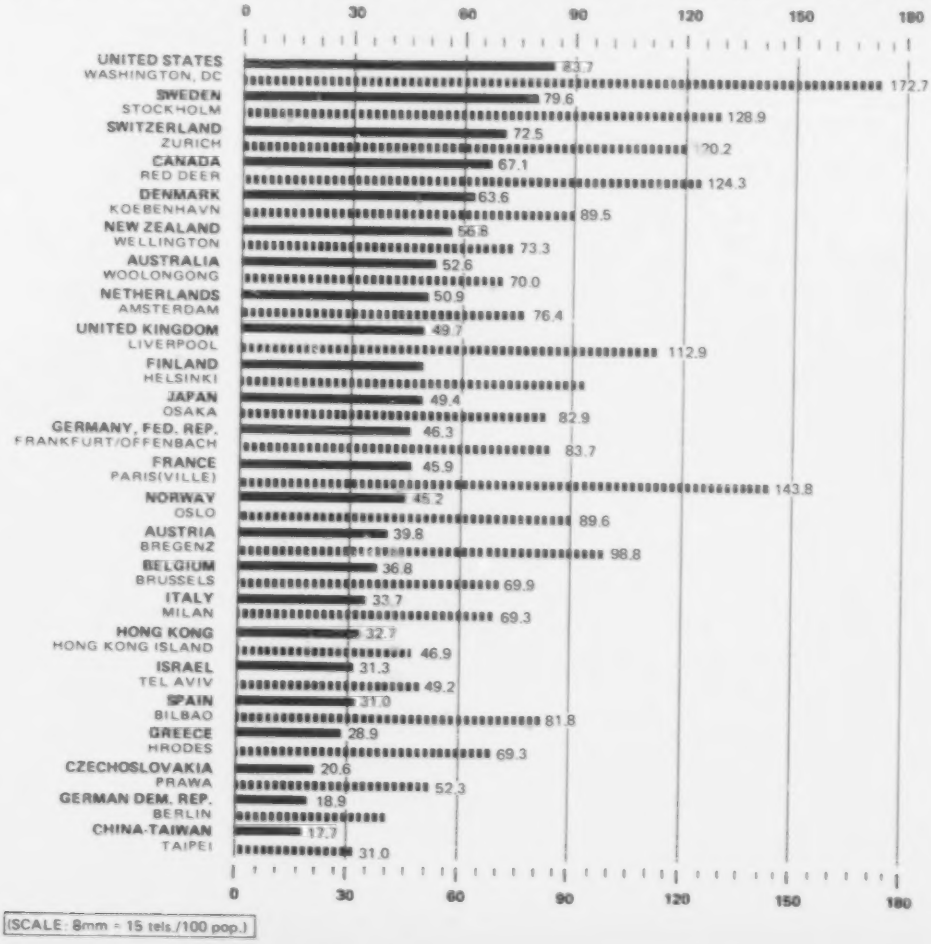
WORLD REGIONS	TOTAL IN SERVICE	PERCENT OF WORLD	PER 100 POP	PRIVATELY OPERATED NUMBER	PERCENT PRIVATELY OPERATED	AUTOMATIC NUMBER	PERCENT AUTOMATIC	NUMBER CONNECTING WITH THE UNITED STATES	PERCENT CONNECTING WITH THE UNITED STATES
Africa	5,028,177	1.0	2.5	7,105	0.1	4,380,720	87.1	4,821,544	95.9
Asia	74,905,484	14.7	7.1	3,697,566	4.9	73,386,347	98.0	72,074,642	96.2
Europe	189,896,985	37.4	24.6	35,603,208	18.7	188,044,167	99.0	187,929,173	99.0
Middle America	6,236,897	1.2	6.9	5,206,170	83.5	6,162,706	98.8	6,143,525	98.5
North America	208,479,406	41.0	81.4	206,218,044	98.9	208,132,111	99.8	208,479,406	100.0
Oceania	10,182,879	2.0	14.7	3,019	0.0	10,032,261	98.5	10,163,714	99.8
South America	13,556,038	2.7	6.3	1,998,616	14.7	12,831,057	94.7	12,864,931	94.9
World (Total)	508,285,866 [969]	100.0	19.1	252,733,728	49.7	502,969,369	99.0	502,476,935	98.9

Telephones by the International Telephone World Numbering Zone Plan.
Reported data are as of January 1, 1981

INTERNATIONAL TELEPHONE WORLD NUMBERING ZONES	TOTAL IN SERVICE	PERCENT OF WORLD	PEP 100 POP	PRIVATELY OPERATED NUMBER	PERCENT PRIVATELY OPERATED	AUTOMATIC NUMBER	PERCENT AUTOMATIC	NUMBER CONNECTING WITH THE UNITED STATES	PERCENT CONNECTING WITH THE UNITED STATES
Zone 1	208,927,387	41.1	79.0	206,381,370	98.8	208,580,092	99.8	208,927,387	100.0
Zone 2	5,028,177	1.0	2.5	7,105	0.1	4,380,720	87.1	4,821,544	95.9
Zone 3 & 4	164,401,341	32.3	35.6	35,603,208	21.7	163,483,240	99.4	162,431,971	98.8
Zone 5	19,344,954	3.8	6.5	7,041,460	36.4	18,545,782	95.9	18,560,475	95.9
Zone 6	12,037,795	2.4	9.0	540,814	4.5	11,371,211	94.5	12,018,630	99.8
Zone 7	23,707,000	4.7	8.9	0	0.0	23,068,000	97.3	23,707,000	100.0
Zone 8	66,251,040	13.0	37.2	3,040,092	4.6	65,704,777	99.2	63,618,213	96.0
Zone 9	8,588,172	1.7	1.0	119,679	1.4	7,835,547	91.2	8,391,715	97.7
World (Total)	508,285,866 [969]	100.0	19.1	252,733,728	49.7	502,969,369	99.0	502,476,935	98.9

Countries reporting 1,000,000 or more telephones and 15 per 100 population
(shown with the city reporting to have the highest telephone development.) [109]

DEVELOPMENT: TELEPHONES PER 100 POPULATION AS OF JANUARY 1, 1981



(SCALE: 8mm = 15 tels./100 pop.)

TOTAL NUMBER OF REPORTED TELEPHONES IN SERVICE
AS OF JANUARY 1,

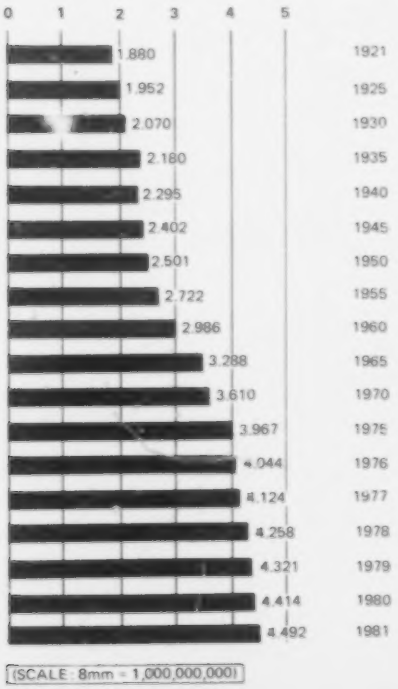
1980 [80]	1979 [80]	1978 [70]	1977 [71]	1976 [72]	1971 [71]	WORLD REGIONS
191,067,690	184,055,100	175,956,000	168,362,000	161,588,000	129,518,000	North America
6,360,732	5,978,276	5,760,000	4,880,000	4,705,000	2,694,000	Middle America
12,878,160	12,096,011	11,073,000	9,856,000	9,172,000	5,978,000	South America
177,582,282	166,565,419	154,829,000	143,871,000	132,201,000	91,945,000	Europe
4,739,283	4,820,410	4,237,000	3,890,000	4,616,000	2,818,000	Africa
70,232,293	66,521,275	62,877,000	59,426,000	59,559,000	31,960,000	Asia
9,276,349	8,213,528 [76]	8,350,000	7,897,000	7,332,000	5,737,000	Oceania
472,136,789 [75]	448,250,019 [76]	423,082,000	398,182,000	379,524,000	270,650,000	World (Total)

TOTAL NUMBER OF REPORTED TELEPHONES IN SERVICE [74]
AS OF JANUARY 1,

1980 [80]	1979 [80]	1978	1977	1976	1971	INTERNATIONAL TELEPHONE WORLD NUMBERING ZONES
192,232,863	185,238,539	177,687,000	169,986,000	163,107,000	130,168,000	1
4,739,283	4,820,410	4,251,000	3,929,000	3,606,000	2,818,000	2
153,474,696	144,136,413	133,933,000	124,743,000	116,547,000	80,416,000	3 and 4
18,073,719	16,890,848	15,729,000	13,708,000	12,198,000	8,018,000	5
11,290,765	10,601,898	9,823,000	9,205,000	8,679,000	6,277,000	6
22,464,000	20,943,000	19,600,000	18,000,000	16,129,000	11,000,000	7
62,417,678	58,921,911	55,642,000	52,653,000	49,147,000	[illegible]	8
7,453,785	6,697,000 [76]	6,884,000	5,934,000	5,065,000 [74]	[illegible]	9
472,136,789 [75]	448,250,019 [76]	423,549,000 [74]	398,158,000 [74]	374,478,000 [74]	270,1[illegible]	World (Total)

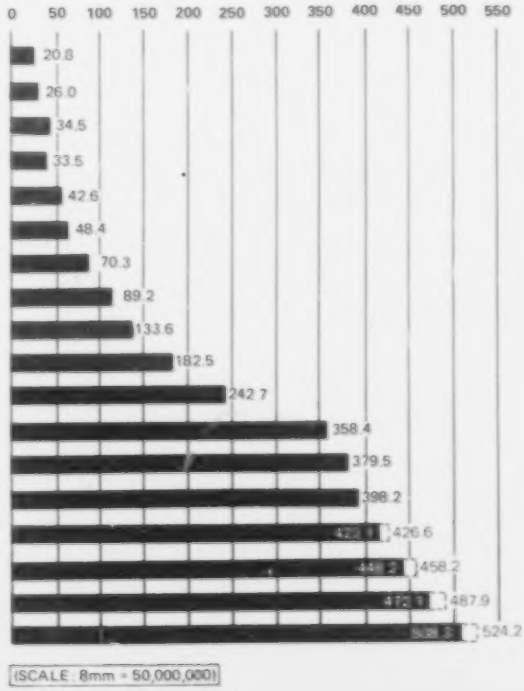
Growth of population and reported telephones

WORLD'S POPULATION AT JULY 1,
(BILLIONS)



(SCALE: 8mm = 1,000,000,000)

REPORTED WORLD'S TELEPHONES AS OF JANUARY 1,
(MILLIONS)



(SCALE: 8mm = 50,000,000)

Table 2:
Countries which have reported 500,000 or more telephones.
Part 1: Reported data are as of January 1, 1981

NAME	TOTAL TELEPHONES	PER 100 PEOPLE	AUTOMATIC TELEPHONES: EMSS	% OF TOTAL	ESS NUMBER	% OF TOTAL	TOTAL AUTO % OF TOTAL TELS.	MAIN TELS.: NUMBER	% OF TOTAL
Argentina [813]	2,880,754	10.4	2,336,737	81.1	32,306	1.1	82.2	2,023,432	70.2
Australia	7,684,336	52.5	6,876,037	89.5	722,397	9.4	98.9	5,069,342	66.0
Austria	3,010,110	39.8 [110]	3,010,110	100.0	–	–	–	2,191,030	72.8
Belgium	3,636,074	36.7	3,010,609	82.8	625,465	17.2	100.0	2,462,947	67.7
Brazil	7,496,000	6.3	7,421,040	99.0	0	0.0	99.0	4,703,305	62.7
Bulgaria	1,255,792	14.1	1,179,221	93.9	0	0.0	93.9	919,976	73.3
Canada	16,178,158	67.2	12,495,283*	77.2	3,370,601	20.8	98.1	12,783,694	79.0
Chile	569,969	5.0	522,048	91.6	–	–	–	363,039	63.7
China-Taiwan	3,166,169	17.8	2,885,663	91.1	243,640	7.7	98.8	2,160,494	68.2
Colombia	1,623,105	5.9	1,552,454	95.6	47,000	2.9	98.5	1,322,285	81.5
Czechoslovakia	3,150,477	20.6	3,087,655	98.0	0	0.0	98.0	1,648,696	52.3
Denmark [165]	3,316,709	63.7	3,202,009	96.5	114,700	3.5	100.0	2,249,114	67.8
Egypt	534,021	1.3	472,093	88.4	0	0.0	88.4	395,426 [40]	74.0
Finland	2,374,461	49.6	2,279,483 [174]	96.0	94,978 [174]	4.0	100.0	1,615,591	68.0
France	24,686,319	45.8	21,516,596	87.2	3,169,723	12.8	100.0	15,790,516	64.0
German Dem. Rep.	3,156,661	18.9	3,156,661	100.0*	0	0.0	100.0	1,355,667	42.9
Germany, Fed. Rep. [61]	28,553,622	46.4	28,480,362	99.7	73,260	0.3	100.0	20,850,306	73.0
Greece	2,796,435	28.9*	2,781,161	99.5	–	–	–	2,270,406	81.2
Hong Kong	1,676,298	32.7	1,241,577	74.1	434,721	25.9	100.0	1,278,866 [378]	76.3
Hungary	1,261,295	11.7	1,057,725	83.9	0	0.0	83.9	617,243	48.9
India [439]	2,785,096	0.4	2,390,565	85.8	–	–	–	2,104,272	75.6
Iran	1,227,293	3.1	1,227,293	100.0	0	0.0	100.0	–	–
Ireland	650,017	18.7	585,173	90.0	0	0.0	90.0	474,883	73.1
Israel	1,230,000	31.2	1,230,000	100.0	0	0.0	100.0	n.a.	n.a.
Italy	19,269,340	33.7	19,269,340	100.0	0	0.0	100.0	13,011,815	67.5
Japan [476]	58,007,409 [381]	49.5	57,893,762 [379]	99.8	– [380]	–	–	41,335,154 [383]	71.3
Korea, Rep. of	3,386,800	9.1 [397]	2,973,080	87.8	18,000	0.5	88.3	2,762,095	81.6
Malaysia	596,972	4.4	435,337	72.9	161,543	27.1	100.0	394,423	66.1
Mexico	5,082,718 [253]	7.6 [263]	4,754,267 [251]	93.5	264,477 [252]	5.2	98.7	2,661,313 [265]	52.4
Netherlands	7,230,000	50.8*	7,230,000	100.0	0*	0.0	100.0	5,039,000	69.7
New Zealand	1,798,000	56.7	1,737,080	96.6	–	–	–	1,136,522	63.2
Norway	1,851,683	45.3	–	–	1,793,142	96.8	–	1,085,415	58.6
Philippines [502]	537,795	1.1 [339]	9,932	1.8	11,989	2.2	4.1	314,524	58.5
Poland	3,387,396	9.4	3,170,278	93.6	–	–	–	1,865,269	55.1
Portugal	1,371 731	13.7*	1,342,089	97.8	0	0.0	97.8	989,470	72.1
Puerto Rico	631,458	20.3	546,430	86.5	85,028	13.5	100.0	401,219	63.5
Singapore	702,219	29.1	518,695	73.9	183,524	26.1	100.0	499,205	71.1
South Africa	2,932,983	12.2 [82]	2,597,373	88.6	48,683	1.7	90.2	1,546,408	52.7
Spain	11,844,623	31.0	11,460,885	96.8	210,461	1.8	98.5	6,871,519	58.0
Sweden	6,621,000	79.5	6,588,000	99.5	33,000	0.5	100.0	4,400,000	66.5
Switzerland	4,612,382	72.4	4,612,382	100.0	0	0.0	100.0	2,839,461	61.6
Turkey	1,902,081	4.3	1,606,364	84.5	0	0.0	84.5	1,147,782	60.3
United Kingdom [225]	27,784,447	49.6	20,671,628 [486]	74.4	7,112,819 [485]	25.5	100.0	18,542,989	66.7
United States [232]	191,595,000 [783]	83.7 [795]	110,491,000	57.7	81,070,000	42.3	100.0	94,843,000	49.5
USSR (Soviet Union)	23,707,000	8.8	23,068,000	97.3	0	0.0	97.3	20,148,000	85.0
Venezuela	n.a.	–	n.a.	–	n.a.	–	–	n.a.	–
Yugoslavia	2,133,225	9.5	2,120,315 [182]	99.4	0	0.0	99.4	1,556,274	73.0

EXT. & PBX TELS.		BUSINESS TELS.			RESIDENCE TELS.			
NUMBER	% OF TOTAL	NUMBER	% OF TOTAL	EXT AS % OF MAIN BUS	NUMBER	% OF TOTAL	EXT AS % OF MAIN RES	NAME
857,322	29.8	1,255,854	43.6	31.9	1,624,900	56.4	10.2	Argentina
2,053,340	26.7	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	Australia
819,080	27.2	–	–	–	–	–	–	Austria
1,173,127	32.3	–[550]	–	–	–[550]	–	–	Belgium
4,792,949	63.9	3,673,040	49.0	41.2	3,822,960	51.0	14.6	Brazil
335,816	26.7	608,841	48.5	15.7	646,951	51.5	100.0*	Bulgaria
3,394,464*	21.0	5,036,209	31.1	34.2*	11,142,949	68.9*	15.6*	Canada
206,930	36.3	273,067	47.9	48.6	296,902	52.1	20.8	Chile
1,005,675	31.8	1,392,686	44.0	28.8	1,773,483	56.0	17.4	China-Taiwan
200,820	18.5	503,163	31.0	81.5*	1,119,942	69.0	9.8	Colombia
1,501,781	47.7	2,028,305	64.4	239.3	1,122,172	35.6	100.0*	Czechoslovakia
1,067,595	32.2	–	–	–	–	–	–	Denmark[165]
0	0.0	–	–	–	–	–	–	Egypt
758,870	32.0	–	–	–	–	–	–	Finland
6,895,803	36.0	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	France
1,800,994	57.1	1,391,442*	44.1	42.9*	1,765,219*	55.9	42.9*	German Dem. Rep.
7,703,316[195]	27.0	–[196]	–	–	–[196]	–	–	Germany, Fed. Rep.[81]
526,029	18.0	–	–	94.4	–	–	–	Greece
397,432	23.7	602,800	36.0	94.0	1,073,498	64.0	10.8	Hong Kong
644,052	51.1	856,992	67.9	31.8	404,303	32.1	100.0*	Hungary
680,824	24.4	–	–	–	–	–	–[199]	India[439]
–	–	–	–	–	–	–	–	Iran
175,134	26.9	281,000[455]	43.2	33.7	369,017[455]	56.8	36.3	Ireland
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	Israel
6,257,525	32.5	6,935,138	36.0	44.4	12,334,204	64.0	24.4	Italy
16,672,255	28.7	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	Japan[476]
624,705	18.4	1,653,400	48.8	62.2*	1,733,400	51.2	100.0*	Korea, Rep. of
202,549	33.9	352,765	59.1	72.0	244,207	40.9	7.0	Malaysia
2,419,492[266]	47.6	2,003,263[550]	39.4	71.0	3,079,455[29a]	60.6	59.0	Mexico
2,191,000	30.3	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	Netherlands
662,280	36.8	881,667	49.0	23.1*	917,135	51.0	101.7*	New Zealand
766,268	41.4	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	Norway
223,271	41.5	297,476	55.3	83.8	240,319	44.7	22.6	Philippines[502]
1,522,127	44.9	2,117,841	62.5	35.4	1,269,555	37.5	100.0*	Poland
382,261	27.9	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	Portugal
230,239	36.5	320,133	50.7	68.5	311,325	49.3	19.9	Puerto Rico
203,014	28.9	296,413	42.2	36.3	405,806	57.8	4.6	Singapore
1,386,575[85]	47.3	1,561,402	53.2	24.8	1,371,581	46.8	6.1	South Africa
4,973,104	42.0	4,413,949	37.3	34.6	7,430,674	62.7	63.8	Spain
2,221,000	33.5	2,022,000	30.5	65.1	4,599,000	69.5	12.4	Sweden
1,772,921	38.4	2,188,834	47.5	208.4	2,432,548	52.7	13.8	Switzerland
754,299	39.7	1,080,354	56.8	34.5	821,727	43.2	25.4	Turkey
0	0.0	–	–	–	–	–	–	United Kingdom[325]
96,752,000	50.5	53,189,000	27.8	71.5	138,406,000	72.2	76.2	United States[232]
3,559,000	15.0	–	–	–	–	–	–	(Soviet Union) USSR
n.a.	–	n.a.	–	–	n.a.	–	–	Venezuela
576,961	27.0	981,015	46.0	36.9*	1,152,210	54.0	103.7*	Yugoslavia

Table 2: (continued)

Countries which have reported 500,000 or more telephones. Comparative data for the years 1981, 1980 and 1971

Part 2: Reported data are as of January 1, 1981

NAME	TOTAL TELEPHONES REPORTED IN SERVICE				RATIO OF TOTAL TELEPHONES PER 100 POPULATION			
	1981	1980	PERCENT INCREASE 1980 – 1981	1971	PERCENT INCREASE 1971 – 1981	1981	1980	1971
Argentina	2,880,754	2,759,736	4.4	1,746,015	65.0	10.4	10.3*	7.2
Australia [813]	7,684,336	7,396,212 [3]	3.9	3,913,167 [90]	96.4	52.5	52.0 [129]	31.2
Austria	3,010,110	2,812,678	7.0	1,427,333	110.9	39.8 [110]	36.6	19.3
Belgium	3,636,074	3,447,697	5.5	2,018,827	80.1	36.7	35.0	20.8
Brazil	7,496,000	6,494,000	15.4	2,000,726	274.7	6.3	5.1	2.2
Bulgaria	1,255,792	1,136,476 [73]	10.5	473,047	165.5	14.1	12.8	5.5
Canada [884]	16,178,158	15,560,264 [6]	4.0	9,752,537	65.9	67.2	65.6 [142]	45.2
Chile	569,969	553,856	2.9	369,198	54.4	5.0	4.9	3.8
China-Taiwan [503]	3,166,169	2,566,078	23.4	403,348	685.0	17.8	14.7	4.5
Colombia	1,623,105	1,524,000	6.5	974,415	66.6	5.9	5.8	4.5
Czechoslovakia	3,150,477	3,072,829	2.5	2,003,421	57.3	20.6	20.1	13.8
Denmark [165]	3,316,709	3,144,558 [37]	5.5	1,696,765	95.5	63.7	61.4 [159]	34.4
Egypt	534,021	510,082 [72]	4.7*	n.a.	—	1.3	1.2 [72]	n.a.
Finland	2,374,461	2,244,365	5.8	1,180,785	101.1	49.6	47.1	25.2
France	24,686,319	22,211,952	11.1	8,774,261	181.3	45.8	41.4*	17.2
German Dem. Rep.	3,156,661	3,071,515	2.8	2,089,216	51.1	18.9	18.3	12.1
Germany, Fed. Rep. [81]	28,553,622	26,632,302	7.2	13,834,827	106.4	46.4	43.4 [162]	22.4
Greece	2,796,435	2,664,050	5.0	1,044,777	167.7	28.9*	28.2	12.0
Hong Kong	1,676,298	1,517,294	10.5	583,222	187.4	32.7	30.2	14.8
Hungary	1,261,295	1,186,526	6.3	823,600	53.1	11.7	11.1	8.0
India [439]	2,785,096	2,615,075 [5]	6.5	1,245,352	123.6	0.4	0.4 [163]	0.2
Iran	1,227,293	730,000 [83]	68.1	307,500	299.1	3.1	2.2	1.1
Ireland	650,017	586,000	10.9	307,497	111.4	18.7	17.3	10.4
Israel	1,230,000	1,081,480	13.7	510,550	140.9	31.2	28.2	17.5
Italy	19,269,340	18,084,996	6.5	9,368,732	105.7	33.7	31.8	17.4
Japan [476]	58,007,409 [381]	55,421,515 [18]	4.7	26,233,360	121.1	49.5	47.6	25.1
Korea, Rep. of	3,386,800	2,898,687	16.8	633,818	434.3	9.1 [397]	7.8	2.0
Malaysia	596,972	518,066 [67]	15.2*	178,734 [70]	234.0*	4.4	3.8 [67]	1.5
Mexico	5,082,718 [253]	4,532,557	12.1	1,507,363	237.2	7.6 [263]	6.4*	3.0
Netherlands	7,230,000	6,852,776	5.1	3,409,842	112.0	50.8*	48.6	26.0
New Zealand	1,798,802	1,729,916	4.0	1,262,427 [84]	42.5	56.7	55.0	44.1
Norway	1,851,683	1,725,678	7.3	1,144,795	61.7	45.3	42.3	29.4
Philippines [502]	537,795	519,642	3.5	309,922	73.5	1.1 [239]	1.2	0.8
Poland	3,387,396	3,243,693	4.4	1,867,086	81.4	9.4	9.1	5.7
Portugal	1,371,731	1,305,580	5.1	749,963	82.9	13.7*	13.1	7.8
Puerto Rico	696,805 [54]	651,388	7.0	333,738	108.8 [54]	20.3	18.5	12.2
Singapore	702,219	625,130	12.3	161,310 [124]	335.3	29.1	26.5	7.8
South Africa	2,932,983	2,662,399 [35]	10.2	1,553,825 [125]	88.8	12.2 [82]	10.8*	7.1
Spain	11,844,623	11,107,624	6.6	4,604,368	157.2	31.0	29.4	13.6
Sweden	6,621,000	6,407,031	3.3	4,505,802	46.9	79.5	77.1	55.7
Switzerland	4,612,382	4,446,205	3.7	3,025,779	52.4	72.4	70.4	48.3
Turkey	1,902,081	1,747,854	8.8	576,943	229.7	4.3	3.9	1.6
United Kingdom [325]	27,784,447	26,651,384 [48]	4.3	14,966,748 [127]	85.6	49.6	47.7	26.7
United States [232]	191,595,000 [783]	182,558,000 [56]	5.0 [180]	120,218,000	59.4	83.7 [795]	82.3 [56]	58.4
USSR (Soviet Union)	23,707,000	22,464,000	5.5	11,000,000	115.5	8.8	8.4	4.5
Venezuela [183]	n.a.	1,165,016	—	405,613	—	—	8.5	3.9
Yugoslavia	2,133,225	1,912,833	11.5	736,045	189.8	9.5	8.5	3.6

Table 3:
Total Telephones, (population ratio, percent automatic and type of operation)
Reported data are as of January 1, 1981

AREA	TOTAL TELEPHONES	PER 100 POPULATION	PERCENT AUTOMATIC		TYPE OF OPERATION				
						GOVERNMENT			
							PERCENT		
			EMSS	ESS	PRIVATE NUMBER	NUMBER	NAT'L.	STATE	MUNIC.
World Zone 1									
Anguilla [224]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Antigua [226]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Bahamas	71,883	34.4	98.6	0.0	14,972	56,911	79.2	0.0	0.0
Barbados	66,679	26.6	66.8	33.2	66,679	0	0.0	0.0	0.0
Bermuda	46,290	84.6	77.5*	22.5*	46,290	0	0.0	0.0	0.0
Canada [884]	16,178,158	67.1	77.2*	20.8*	14,171,614*	2,006,544*	0.3*	9.0*	3.2*
Cayman Islands [537]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
+ Dominica [532]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Dominican Republic	165,253	2.9	85.8	14.2	0	0	0.0	0.0	0.0
Grenada [14]	5,648	5.4	100.0	0.0	5,648 [14]	0	0.0	0.0	0.0
Jamaica	119,402	6.0	100.0	0.0	0	119,402	100.0	0.0	0.0
Montserrat	2,602	22.4	100.0	0.0	2,602	0	0.0	0.0	0.0
Puerto Rico	631,458	20.3	86.5	13.5	631,458	0	0.0	0.0	0.0
St. Kitts-Nevis [224]	n.r. [856]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
St. Lucia [852]	n.r. [252]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
St. Pierre and Miquelon	2,907	44.7	100.0	0.0	0	2,907	100.0	0.0	0.0
St. Vincent [860]	n.r. [860]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
+ Trinidad and Tobago [865]	n.r. [865]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
+ Turks and Caicos Islands	932	12.6	100.0	0.0	932	0	0.0	0.0	0.0
United States [232]	191,595,000 [783]	83.7	57.7	42.3	191,400,000	195,000	0.1	0.0	0.0
Virgin Islands	41,175	39.6	100.0	0.0	41,175	0	0.0	0.0	0.0
Virgin Islands, British [851]	n.r. [851]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Total – World Zone 1	**208,927,387**				**206,381,370**	**2,380,764**			
World Zone 2									
Algeria	484,973	2.5	58.9	0.0	0	484,973	100.0	0.0	0.0
Angola [60]	n.r.	n.r.	n.r.	n.r.	n.r.	0	n.r.	n.r.	n.r.
+ Ascension Island [74]	n.r.	n.r.	n.r.	n.r.	n.r.	0	n.r.	n.r.	n.r.
Benin [82]	n.r.	n.r.	n.r.	n.r.	n.r.	0	n.r.	n.r.	n.r.
Botswana [304]	n.r.	n.r.	n.r.	n.r.	n.r.	0	n.r.	n.r.	n.r.
Burundi [451]	n.r.	n.r.	n.r.	n.r.	n.r.	0	n.r.	n.r.	n.r.
Cameroon [472]	n.r.	n.r.	n.r.	n.r.	n.r.	0	n.r.	n.r.	n.r.
Cape Verde	1,739	0.6	100.0	–	0	1,739	100.0	0.0	0.0
Central African Republic [490]	n.r.	n.r.	n.r.	n.r.	n.r.	0	n.r.	n.r.	n.r.
Chad [639]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Comoros [558]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Congo [663]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Djibouti [671]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Egypt	534,021	1.2	88.4	0.0	0	534,021	100.0	0.0	0.0
Equatorial Guinea	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Ethiopia	87,846	0.3	86.2	0.0	0	87,846	100.0	0.0	0.0
Gabon	11,600	1.2	76.7	17.2	0	11,600	100.0	0.0	0.0
Gambia [89]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Ghana [629]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Guinea – Bissau [44]	n.r. [44]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Guinea, Rep. of [673]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Ivory Coast [824]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Kenya	198,294	1.2	85.9	n.a.	0	198,294	100.0	0.0	0.0
Lesotho [822]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Liberia [820]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Libya	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Malagasy (Madagascar) [222]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Malawi	15,130	0.3	92.4	0.0	0	15,130	100.0	0.0	0.0
Mali [322]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Mauritania [814]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Mauritius	37,812	4.0	76.7	23.3	0	37,812	100.0	0.0	0.0
Morocco [815]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Mozambique [827]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Namibia (South West Africa)	54,281	5.7	75.6	0.0	0	54,281	100.0	0.0	0.0
Niger [840]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Nigeria [843]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Reunion	60,296	12.0	100.0	0.0	0	60,296	100.0	0.0	0.0
Rwanda [841]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
+ Saint Helena [71]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Sao Tome and Principe [803]		n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Senegal [816]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Seychelles	7,105	11.1	100.0	0.0	7,150	0	0.0	0.0	0.0
Sierre Leone [870]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Somalia [706]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
South Africa	2,932,983	12.1	88.6	1.7	0	2,932,983	100.0	0.0	0.0
Bophuthatswana [514]	10,995	0.9	61.8	0.0	0	10,995	100.0	0.0	0.0
Ciskei [515]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Transkei [514]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Venda [514]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Sudan	65,038	0.3	94.3	0.0	0	65,038	100.0	0.0	0.0

Table 3: (continued)
Total Telephones, (population ratio, percent automatic and type of operation)
Reported data as of January 1, 1981

AREA	TOTAL TELEPHONES	PER 100 POPULATION	PERCENT AUTOMATIC		TYPE OF OPERATION				
						GOVERNMENT			
							PERCENT		
			EMSS	ESS	PRIVATE NUMBER	NUMBER	NAT'L.	STATE	MUNIC.
World Zone 2 (Continued)									
Swaziland	12,028	2.2	83.3	0.0	0	12,028	100.0	0.0	0.0
Tanzania	93,238	0.6	80.3	0.0	0	93,238	100.0	0.0	0.0
Togo	7,870	0.3	92.2*	0.0	0	7,870	100.0	0.0	0.0
Tunisia	188,476	3.0	96.6	–	0	188,476	100.0	0.0	0.0
Uganda [707]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Upper Volta [881]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Zaire [882]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Zambia [883]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Zimbabwe (Rhodesia)	224,452	3.0	96.1	0.0	0	224,452	100.0	0.0	0.0
Total – World Zone 2	**5,028,177**				**7,105**	**5,021,072**			
World Zone 3 & 4									
Albania [102]	n.r. [102]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
‡ Andorra	15,785	43.5	100.0	0.0	0	15,785	100.0	0.0	0.0
Austria	3,010,110	39.8 [110]	100.0	–	0	3,010,110	100.0	0.0	0.0
Belgium	3,636,074	46.8	82.8	17.2	0	3,636,074	100.0	0.0	0.0
Burgaria	1,255,792	14.1	93.9	0.0	0	1,255,792	100.0	0.0	0.0
Cyprus	113,437	17.9	99.1	0.9	0	113,437	100.0	0.0	0.0
Czechoslovakia	3,150,477	20.6	98.0	0.0	0	3,150,477	100.0	0.0	0.0
Denmark [165]	3,316,709	63.6	96.5	3.5	2,894,060	422,649	5.1	–	7.7
Finland	2,374,461	49.6	96.0 [174]	4.0 [174]	1,587,500	786,961	25.7	–	7.4
France	24,686,319	45.9	87.2	12.8	0	24,686,319	100.0	0.0	0.0
(5) French Guiana [244]	18,134	25.9	100.0	0.0	0	18,134	100.0	0.0	0.0
(6) French Polynesia [244]	22,523	16.7	100.0	0.0	0	22,523	100.0	0.0	0.0
(5) Guadeloupe [244]	50,207	15.7	100.0	0.0	0	50,207	100.0	0.0	0.0
(5) Martinique [244]	64,154	21.2	100.0	–	0	64,154	100.0	0.0	0.0
(6) New Caledonia [244,318]	27,953	20.6	98.3	0.0	0	27,953	100.0	0.0	0.0
(2) Reunion [244]	60,296	12.0	100.0	0.0	0	60,296	100.0	0.0	0.0
(1) St. Pierre and Miquelon [244]	2,907	44.7	100.0	0.0	0	2,907	100.0	0.0	0.0
(6) Wallis and Futuna Islands [244]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
German Dem. Rep.	3,156,661	18.9	100.0	0.0	0	3,156,661	100.0	0.0	0.0
Germany, Fed. Rep. [81]	28,553,622	46.3	99.7	0.3	0	28,553,622	100.0	0.0	0.0
Gibraltar	9,388 [133]	31.5	100.0	0.0	0	9,388	100.0	0.0	0.0
Greece	1,796,435	28.9*	99.5	–	0	2,796,435	100.0	0.0	0.0
‡ Guernsey-Channel Islands	37,070	66.2	73.0	26.9	0	37,070	100.0	0.0	0.0
Hungary	1,261,295	11.8	83.9	0.0	0	1,261,295	100.0	0.0	0.0
Iceland	108,767	47.5	96.8	0.0	0	108,767	100.0	0.0	0.0
Ireland	650,017	18.7	90.0	0.0	0	650,017	100.0	0.0	0.0
Italy	19,269,340	33.7	100.0	0.0	19,269,340	0	0.0	0.0	0.0
‡ Jersey – Channel Islands	52,658	69.2	74.6	25.4	0	52,658	100.0	0.0	0.0
Liechtenstein	20,017	77.0	100.0	0.0*	0	20,107	100.0	0.0	0.0
Luxembourg [103]	n.r.	n.r. [760]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Malta	82,735	26.2	64.9	35.1	–	82,735 [153]	100.0 [153]	–	–
Monaco [782]	n.r.	n.r. [782]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Netherlands	7,230,000*	50.9*	100.0*	0.0*	0	7,230,000	100.0*	0.0*	0.0*
Norway	1,851,683	45.3	–	96.8	0	1,851,683	100.0	0.0	0.0
Poland	3,387,396	9.5	93.6	–	–	3,387,396	100.0	–	–
Portugal	1,371,731	13.8*	97.8	0.0	–	1,371,731	100.0	0.0	0.0
Romania [169]	n.r. [169]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
‡ San Marino	7,685	25.7	100.0*	0.0	7,685	0	0.0	0.0	0.0
Spain	11,844,623	31.0	98.8	1.8	11,844,623	0	0.0	0.0	0.0
Sweden	6,621,000	79.6	99.5	0.5	0	6,621,000	100.0	0.0	0.0
Switzerland	4,612,382	72.5	100.0	0.0	0	4,612,382	100.0	0.0	0.0
United Kingdom [325]	27,784,447	49.7	74.4 [486]	25.5 [486]	0	27,784,447	99.4	0.0	0.6
Yugoslavia	2,133,225	9.6	99.4 [182]	0.0	0	2,133,225	100.0	0.0	0.0
Total – World Zone 3 & 4	**164,401,341**				**35,603,208**	**128,798,133**			
World Zone 5									
Argentina	2,880,754	10.3	81.1	1.1	719,944 [41]	2,160,810	74.9	0.1	0.0
Belize	6,250	4.3	37.3	62.3	0	6,250	100.0	0.0	0.0
Bolivia	135,100	2.6	100.0	0.0	112,600	22,500	0.0	0.0	16.7
Brazil	7,496,000	6.3	99.0	0.0	226,000	7,270,000	97.0	0.0	0.0
Chile	569,969	5.0	91.6	–	569,969 [217]	0	0.0	0.0	0.0
Columbia	1,623,105	6.0	95.6	2.9	0	1,623,105	6.3	0.0	93.7
Costa Rica	236,132	10.4	98.7	0.0	0	236,132	100.0	0.0	0.0
Cuba [210]	n.r. [210]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Ecuador [417]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
El Salvador	75,920	1.6	90.7	–	0	75,920	100.0	0.0	0.0
‡ Falkland Islands [340]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
French Guiana	18,134	25.9	100.0	0.0	0	18,134	100.0	0.0	0.0
Guadeloupe	50,207	15.7	100.0	0.0	0	50,207	100.0	0.0	0.0
Guatemala	81,622	1.6	100.0	0.0	0	81,622	100.0	0.0	0.0
Guyana [449]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Haiti [628]	n.r.	n.r. [734]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Honduras	n.r.	n.r. [736]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.

AREA	TOTAL TELEPHONES	PER 100 POPULATION	PERCENT AUTOMATIC		TYPE OF OPERATION				
						GOVERNMENT			
							PERCENT		
			EMSS	ESS	PRIVATE NUMBER	NUMBER	NAT'L.	STATE	MUNIC.
World Zone 5 (Continued)									
Martinique	64,154	21.2	100.0	—	0	64,154	100.0	0.0	0.0
Mexico	5,082,718 [253]	7.5 [263]	93.5 [251]	5.2 [252]	5,024,172 [254]	58,546	1.2	—	—
Netherlands Antilles [553]	n.r.	n.r. [739]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Nicaragua [727]	n.r.	n.r. [738]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Panama	191,913	9.9	94.6	5.4	18,672	173,241	90.3	0.0	0.0
Paraguay	58,713	1.8	96.0	0.0	0	58,713 [243]	100.0 [243]	0.0	0.0
Peru	487,123 [590]	2.8 [238]	81.2 [589]	9.4	370,103 [585]	169,983 [572]	24.0	0.0	10.9 [572]
Suriname [746]	n.r.	n.r. [749]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Uruguay	287,140	9.0	93.6	0.0	0	287,140	100.0	0.0	0.0
Venezuela [183]	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total – World Zone 5	**19,344,954**				**7,041,460**	**12,356,457**			
World Zone 6									
American Samoa	5,210	15.3	0.0	100.0	0	5,210	100.0	0.0	0.0
Australia [812]	7,684,336	52.6	89.5	9.4	0	7,684,336	100.0	0.0	0.0
+ Banaba (Ocean) Island [342]	0	—	0.0	0.0	0	0	0.0	0.0	0.0
Brunei	17,930	8.0 [291]	18.2	81.8	0	17,930	100.0	0.0	0.0
+ Cocos (Keeling) Island	142 [302]	23.7	100.0	0.0	0	142 [302]	100.0 [302]	0.0	0.0
Cook Islands [526]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Fiji	45,323	7.3	96.6	0.0	0	45,323	100.0	0.0	0.0
French Polynesia	22,523	16.7	100.0	0.0	0	22,523	100.0	0.0	0.0
Guam, Mariana Islands	27,982	26.4	75.8	24.2	0	27,982	0.0	100.0	0.0
Indonesia [538]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Kiribati (Gilbert Islands) [451]	724	1.2	0.0	0.0	0	724	100.0	0.0	0.0
+ Kiritimati (Christmas Island) [399]	461	14.4 [297]	100.0	0.0	461	0	0.0	0.0	0.0
+ Kwajalein	5,790	193.0	100.0	—	0	5,790 [839]	100.0 [839]	0.0	0.0
Malaysia	596,972	4.4	72.9	27.1	0	596,972	100.0	0.0	0.0
+ Midway Islands [542]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Nauru [461]	—	n.a. [481]	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
New Caledonia [719]	27,953	20.6	98.3	0.0	0	27,953	100.0	0.0	0.0
New Zealand	1,798,802	56.8	96.6	—	0	1,798,802	100.0	0.0	0.0
Niue [553]	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
+ Norfolk Island	826	45.9	99.3	0.7	0	826	100.0	0.0	0.0
+ Northern Marianas [466]	2,258	13.4	100.0	0.0	2,258	0	0.0	0.0	0.0
+ Palau (Micronesia) [462]	1,048	8.6 [335]	0.0	100.0	0	1,048	100.0	0.0	0.0
Papua New Guinea [502]	49,330	1.6 [327]	99.9	0.0	0	49,330	100.0	0.0	0.0
Philippines	537,795	1.1 [339]	1.8	2.2	537,795 [138]	0	0.0	0.0	0.0
Pitcairn Island	25	25.0	—	—	0	25	100.0	0.0	0.0
Singapore	702,219	29.1	73.9	26.1	0	702,219	100.0	0.0	0.0
Solomon Islands	2,474	1.1	100.0	0.0	0	2,474	100.0	0.0	0.0
Thailand	496,558	1.1	100.0	0.0	0	496,558	100.0	0.0	0.0
+ Tokelau Islands [426]	0	— [581]	0.0	0.0	0	0	0.0	0.0	0.0
Tonga	2,196	2.3	100.0	0.0	0	2,196	100.0	0.0	0.0
Tuvalu [401]	0	—	0.0	0.0	0	0	0.0	0.0	0.0
Vanuatu (New Hebrides)	3,000	2.5	13.3	86.7	300	2,700	90.0	0.0	0.0
+ Wake Island [406]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Wallis and Futuna Islands	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Western Samoa	5,918	3.7	97.5	0.0	0	5,918	100.0	0.0	0.0
Total – World Zone 6	**12,037,795**				**540,814**	**11,496,981**			
World Zone 7									
USSR (Soviet Union)	23,707,000	8.9	97.3	0.0	0	23,707,000	100.0	0.0	0.0
Total – World Zone 7	**23,707,000**				**0**	**23,707,000**			
World Zone 8									
Bangladesh [766]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
China – Mainland [603]	n.r. [367]	n.r.	n.r.	n.r. [478]	n.r.	n.r.	n.r.	n.r.	n.r.
China – Taiwan	3,166,169	17.7	91.1	7.7	0	3,166,169	100.0	0.0	0.0
Hong Kong	1,676,298	32.7	74.1	25.9	1,676,298	0	0.0	0.0	0.0
Japan [476]	58,007,409 [381]	49.4 [381]	99.8 [379]	— [380]	1,363,794 [382]	56,643,615	97.0 [381]	0.0	0.6
Kampuchea [357]	n.r. [387]	n.r.	n.r.	n.r.	n.r.	n.r. [387]	n.r.	n.r.	n.r.
+ Korea, Dem. Peo. Rep.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Korea, Rep. of	3,386,800	9.0 [397]	87.8	0.5	0	3,386,800	100.0	0.0	0.0
Laos [380]	n.r. [392]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Macao	14,364	5.2	100.0	0.0	0	14,364	0.0	100.0	0.0
Vietnam [408]	n.r. [400]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Total – World Zone 8	**66,251,040**				**3,040,092**	**63,210,948**			

Table 3: (continued)
Total Telephones, (population ratio, percent automatic and type of operation)
Reported data as of January 1, 1981

AREA	TOTAL TELEPHONES	PER 100 POPULATION	PERCENT AUTOMATIC		TYPE OF OPERATION				
						GOVERNMENT			
							PERCENT		
			EMSS	ESS	PRIVATE NUMBER	NUMBER	NAT'L.	STATE	MUNIC.
World Zone 9									
Afghanistan [405]	n.r. [405]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Bahrain	72,564	21.0	100.0	—	72,564	0	0.0	0.0	0.0
Bhutan [520]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Burma [878]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
India [439]	2,785,096	0.4	85.8	—	0	2,785,096	100.0	0.0	0.0
Iran	1,227,293	3.2	100.0 [411]	0.0	—	1,227,293	100.0	—	—
Iraq [433]	n.r. [433]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Israel	1,230,000	31.3 [434]	100.0	0.0	0	1,230,000	100.0	0.0	0.0
Jordan [454]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Kuwait	214,763	15.3	96.0	4.0	0	214,763	100.0	0.0	0.0
Lebanon [450]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Maldives	1,061	0.7	100.0	0.0	0	1,061	100.0	0.0	0.0
Mongolia [456]	n.r.	n.r.	n.r.	n.r.	n.r	n.r.	n.r.	n.r.	n.r.
Nepal [445]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Oman [465]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Pakistan	367,080 [458]	0.4	89.1	1.6	0	367,080	100.0	0.0	0.0
Qatar	53,324	26.1	100.0 [447]	0.0 [447]	0	53,324 [447]	100.0 [447]	0.0	0.0
Saudi Arabia	442,514	5.3	2.2	96.5	47,115	395,399	89.4	0.0	0.0
Sri Lanka	83,500	0.6	57.3	15.7	0	83,500	100.0	0.0	0.0
Syria [477]	n.r.	n.r.	n.r.	n.r	n.r.	n.r.	n.r.	n.r.	n.r.
Turkey	1,902,081	4.2	84.5	0.0	0	1,902,081	100.0	0.0	0.0
United Arab Emirates	208,896	20.0	13.8	86.2	0	208,896	100.0	0.0	0.0
Yemen (Aden) [617]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Yemen (Sanaa)	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Total – World Zone 9	**8,588,172**				**119,679**	**8,468,493**			
TOTAL (ALL WORLD ZONES)	**508,285,866**				**252,733,728**	**255,439,848**			

Table 4
Total Telephones (Automatic Switching, EMSS, ESS, LD and ISD Equipped)
Reported data are as of January 1, 1981

AREA	TOTAL TELEPHONES	EMSS NUMBER	EMSS LD EQUIPPED	EMSS ISD EQUIPPED	ESS NUMBER	ESS LD EQUIPPED	ESS ISD EQUIPPED
World Zone 1							
Anguilla [224]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Antigua [226]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Bahamas	71,883	70,862	70,862	68,431 *	0	–	–
Barbados	66,679	44,537	0	0	22,142	8,787	8,787
Bermuda	46,290	35,854 *	–	–	10,436 *	–	–
Canada [884]	16,178,158	12,495,283 *	12,152,400 *	2,426,972 *	3,370,601 *	3,154,416 *	899,847 *
Cayman Islands [537]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
‡Dominica [532]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Dominican Republic	165,253	141,864	119,568	22,296	23,389	14,936	8,453
Grenada [14]	5,648	5,648	–	–	0	–	–
Jamaica	119,402	119,402	119,402	70,037	0	0	0
Montserrat, West Indies	2,602	2,602	0	0	0	0	0
Puerto Rico	631,458	546,430	546,430	–	85,028	35,028	–
St. Kitts-Nevis [224]	n.r. [856]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
St. Lucia [852]	n.r. [852]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
St. Pierre and Miquelon	2,907	2,907	2,907	–	0	–	–
St. Vincent [860]	n.r. [860]	n.r. [860]	n.r.	n.r.	n.r.	n.r.	n.r.
‡Trinidad and Tobago [865]	n.r. [865]	n.r. [865]	n.r.	n.r.	n.r.	n.r.	n.r.
‡Turks and Caicos Islands	932	932	932	0	0	0	0
United States [232]	191,595,000 [865]	110,491,000	110,491,000	16,568,250 *	81,070,000	81,070,000	77,016,500 *
Virgin Islands	41,175	41,175	0	0	0	0	0
Virgin Islands, British [851]	n.r. [848]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Total – World Zone 1	**208,927,387**	**123,998,496**	**123,503,501**	**19,155,986**	**84,581,596**	**84,333,167**	**77,933,587**
World Zone 2							
Algeria	484,973	285,607	–	–	0	–	–
Angola [60]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
‡Ascension Island [74]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Benin [87]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Botswana [304]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Burundi [451]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Cameroon [472]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Cape Verde	1,739	1,739	1,739 *	–	–	0	0
Central African Republic [490]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Chad [639]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Comoros [659]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Congo [663]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Djibouti [671]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Egypt	534,021	472,093	472,093 *	357,715 [38]	0	0	0
Equatorial Guinea	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Ethiopia	87,846	75,750	–	–	0	–	–
Gabon	11,600	8,900	8,900 *	–	2,000 *	2,000	–
Gambia [8]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Ghana [629]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Guinea-Bissau [673]	n.r. [41]	n.r.	–	–	n.r.	–	–
Guinea, Rep. Of [44]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Ivory Coast [824]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Kenya	198,294	170,308	n.a.	n.a.	n.a.	n.a.	n.a.
Lesotho [822]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Liberia [820]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Libya	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Malagasy (Madagascar) [222]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Malawi	15,130	13,983	13,983	11,493	0	–	–
Mali [323]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Mauritania [814]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Mauritius	37,812	28,983	28,983	–	8,829	8,829	–
Morocco [815]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Mozambique [827]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Namibia (South West Africa)	54,281	41,022	–	–	0	–	–
Niger [840]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Nigeria [843]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Reunion	60,296	60,296	60,296	–	0	0	–
Rwanda [847]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
‡Saint Helena [71]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Sao Tome and Principe [803]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Senegal [816]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Seychelles	7,105	7,105	–	–	0	–	–
Sierre Leone [879]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Somalia [704]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
South Africa	2,932,983	2,597,373	2,597,373	2,574,720	48,683	48,683	48,365
Bophuthatswana [514]	10,995	6,796	–	–	0	0	0
Ciskei [515]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Transkei [514]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Venda [514]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Sudan	65,038	61,311	54,248	0	0	0	0
Swaziland	12,028	10,023	3,599	2,962	0	0	0
Tanzania	93,238	74,895	74,895 *	–	0	0	0
Togo	7,870	7,253 *	–	–	0	0	0
Tunisia	188,476	182,136	182,136	–	–	0	–
Uganda [707]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.

Table 4 (continued)
Total Telephones (Automatic Switching, EMSS, ESS, LD and ISD Equipped)
Reported data as of January 1, 1981

AREA	TOTAL TELEPHONES	EMSS			ESS		
		NUMBER	LD EQUIPPED	ISD EQUIPPED	NUMBER	LD EQUIPPED	ISD EQUIPPED
World Zone 2 (continued)							
Upper Volta [881]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Zaire [882]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Zambia [883]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Zimbabwe (Rhodesia)	224,452	215,635	–	–	0	–	–
Total – World Zone 2	**5,028,177**	**4,321,208**	**3,498,245**	**2,946,890**	**59,512**	**59,512**	**48,365**
World Zone 3 & 4							
Albania [102]	n.r. [102]	n.r. [102]					
‡Andorra	15,785	15,785	n.r. 15,785	n.r.	n.r.	n.r.	n.r.
Austria	3,010,110	3,010,110	–	–	0	–	–
Belgium	3,636,074	3,010,609	–	–	–	–	–
Bulgaria	1,255,792	1,179,221	1,179,221	1,179,221	625,465	–	–
Cyprus	113,437	112,367	112,367	111,879	0	0	0
Czechoslovakia	3,150,477	3,087,655	3,087,655	–	1,070	1,070	1,070
Denmark [165]	3,316,709	3,202,009	3,202,009 [122]	–	0	0	0
Finland	2,374,461	2,279,483 [174]	–	–	114,700	114,700 [122]	–
France	24,686,319	21,516,596	n.a.	n.a.	94,978 [174]	–	–
(5) French Guiana [244]	18,134	18,134	11,159	1,156	3,169,723	n.a.	n.a.
(6) French Polynesia [244]	22,523	22,253	–	–	0	0	0
(5) Guadeloupe [244]	50,207	50,207	50,207	50,207	0	–	–
(5) Martinique [244]	64,154	64,154	64,154	64,154	0	0	0
(6) New Caledonia [318,244]	27,953	27,486	–	–	–	–	–
(2) Reunion [244]	60,296	60,296	60,296	–	0	–	–
(1) St. Pierre and Miquelon [244]	2,907	2,907	2,907	–	0	0	–
(6) Wallis and Futuna Islands [244]	n.r.	n.r.	n.r.	n.r.	0	–	–
German Dem. Rep.	3,156,661	3,156,661	–	–	n.r.	n.r.	n.r.
Germany, Fed. Rep. [81]	28,553,622	28,480,362	28,480,362	28,480,362	0	0	0
Gibraltar	9,388 [133]	9,388	9,388	–	73,260	73,260	73,260
Greece	2,796,435	2,781,161	2,781,161	2,781,161	0	–	–
‡Guernsey-Channel Islands	37,070	27,044	27,044	27,044	–	–	–
Hungary	1,261,295	1,057,725	1,057,725 [145]	–	9,990	9,900	9,900
Iceland	108,767	105,271	105,271 [149]	–	0	0	0
Ireland	650,017	585,173	650,017 *	–	0	0	0
Italy	19,269,340	19,269,340	19,269,340 *	–	0	0	0
‡Jersey-Channel Islands	52,658	39,277	39,277	39,277	0	0	0
Liechtenstein	20,017	20,017	20,017	20,017	13,381	13,381	13,381
Luxembourg [103]	n.r.	n.r.	n.r.	n.r.	0 *	0 *	0 *
Malta	82,735	53,662	–	–	n.r.	n.r.	n.r.
Monaco [782]	n.r.	n.r.	n.r.	n.r.	29,073	–	–
Netherlands	7,230,000 *	7,230,000	7,230,000	7,230,000	n.r.	n.r.	n.r.
Norway	1,851,683	–	–	–	0 *	0 *	0 *
Poland	3,387,396	3,170,278	–	–	1,793,142 [194]	–	–
Portugal	1,371,731	1,342,089	n.a.	n.a.	–	–	–
Romania [169]	n.r. [169]	n.r. [169]	n.r.	n.r.	0	0	0
‡San Marino	7,685	7,685	7,685 [131]	–	n.r.	n.r.	n.r.
Spain	11,844,623	11,460,885	11,460,885 [185]	–	0	0	0
Sweden	6,621,000	6,588,000	6,588,000	6,588,000	210,461	210,461 [189]	–
Switzerland	4,612,382	4,612,382	4,612,382	4,612,382	33,000	33,000	33,000
United Kingdom [325]	27,784,447	20,671,628 [486]	20,671,628 [487]	–	0	0	0
Yugoslavia	2,133,225	2,120,315 [182]	–	0	7,112,819 [486]	7,112,819 [487]	–
					0	0	0
Total – World Zone 3 & 4	**164,401,341**	**150,202,178**	**110,607,219**	**51,069,343**	**13,281,062**	**7,568,591**	**130,611**
World Zone 5							
Argentina	2,880,754	2,336,737	1,735,322	–	32,306	32,306	–
Belize	6,290	2,334	n.a.	n.a.	3,896	n.a.	n.a.
Bolivia	135,100	135,100	115,500	0	0	0	0
Brazil	7,496,000	7,421,040	–	–	0	0	0
Chile	569,969	522,048	–	–	–	–	–
Colombia	1,623,105	1,552,454	–	–	47,000	–	–
Costa Rica	236,132	233,013	233,013	222,576	0	0	0
Cuba [210]	n.r. [210]	n.r.	–	–	n.r.	–	–
Ecuador [417]	n.r.	n.r.	n.r.	n.r. [223]	n.r.	n.r.	n.r.
El Salvador	75,920	68,842	68,842 *	7	–	–	–
‡Falkland Islands [340]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
French Guiana	18,134	18,134	11,159	1,156	0	0	0
Guadeloupe	50,207	50,207	50,207	50,207	0	0	0
Guatemala	81,622	81,622	0	0	0	0	0
Guyana [449]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Haiti [626]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Honduras	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Martinique	64,154	64,154	64,154	64,154	–	–	–
Mexico	5,082,718 [253]	4,754,267 [251]	–	–	264,477 [252]	–	–
Netherlands Antilles [553]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Nicaragua [723]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Panama	191,913	181,604	181,604 [232]	79,242	10,309	10,309 [233]	10,309
Paraguay	58,713	56,388	–	–	0	0	0
Peru	487,123 [580]	395,308 [580]	–	–	45,767	–	–
Suriname [746]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.

AREA	TOTAL TELEPHONES	EMSS NUMBER	EMSS LD EQUIPPED	EMSS ISD EQUIPPED	ESS NUMBER	ESS LD EQUIPPED	ESS ISD EQUIPPED
Uruguay	287,140	268,775	268,775	259,240	0	—	—
Venezuela [183]	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total – World Zone 5	**19,344,954**	**18,142,027**	**2,728,576**	**676,582**	**403,755**	**42,615**	**10,309**
World Zone 6							
American Samoa	5,210	0	0	0	5,210	5,210	5,210
Australia [813]	7,684,336	6,876,037	6,876,037	4,816,625	722,397	722,397	722,397
‡Banaba (Ocean) Island [342]	0	0	0	0	0	0	0
Brunei	17,930	3,261	3,261	0	14,669	14,669	13,982
‡Cocos (Keeling) Island	142 [302]	142 [302]	0	0	0	0	0
Cook Islands [526]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Fiji	45,323	43,764	—	—	0	—	—
French Polynesia	22,523	22,523	—	—	0	—	—
Guam, Mariana Islands	27,982	21,203	21,203	21,203	6,779	6,779	6,779
Indonesia [536]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Kiribati (Gilbert Islands) [351]	724	0	0	0	0	0	0
‡Kiritimati (Christmas Island) [399]	461	461	—	—	0	—	—
‡Kwajalein	5,790	5,790	—	—	—	—	—
Malaysia	596,972	435,337	—	—	161,543	—	—
‡Midway Islands [540]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Nauru [543]	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
New Caledonia [318]	27,953	27,486	—	—	0	—	—
New Zealand	1,798,802	1,737,080	940,000	940,000	—	—	—
Niue [559]	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
‡Norfolk Island	826	820	—	—	6	—	—
Northern Marianas [188]	2,258	-2,258	2,258	2,258	0	—	—
‡Palau (Micronesia) [493]	1,048	0	—	—	1,048	1	—
Papua New Guinea	49,330	49,258	49,258	46,795	0	—	—
Philippines [502]	537,795	9,932	n.a.	n.a.	11,989	n.a.	n.a.
‡Pitcairn Island	25	—	—	—	—	—	—
Singapore	702,219	518,695	518,695	7,454	183,524	183,224	2,168
Solomon Islands	2,474	2,474	—	—	0	0	0
Thailand	496,558	496,361	496,361	—	197	197	—
‡Tokelau Islands [425]	0	0	0	0	0	0	0
Tonga	2,196	2,196	—	—	0	0	0
Tuvalu [401]	0	0	0	0	0	0	0
Vanuatu (New Hebrides)	3,000	400	—	—	2,600	—	—
‡Wake Island [406]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Wallis and Futuna Islands [562]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Western Samoa	5,918	5,771	—	—	0	—	—
Total – World Zone 6	**12,037,795**	**10,261,249**	**8,907,073**	**5,834,335**	**1,109,962**	**932,477**	**750,536**
World Zone 7							
USSR (Soviet Union)	23,707,000	23,068,000	—	—	0	—	—
Total – World Zone 7	**23,707,000**	**23,068,000**	**–**	**–**	**0**	**–**	**–**
World Zone 8							
Bangladesh [755]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
China-Mainland [503]	n.r. [367]	n.r.	—	—	n.r.	—	—
China-Taiwan	3,166,169	2,885,633	2,885,633 *	0	243,640 *	243,640	100,870
Hong Kong	1,676,298	1,241,577	n.a.	39,968	434,721	n.a.	15,369
Japan [476]	58,007,409 [381]	57,893,762 [379]	n.a.	n.a.	— [380]	n.a.	n.a.
Kampuchea [387]	n.r. [387]	n.r.	—	—	n.r.	—	—
‡Korea, Dem. Peo. Rep.	n.r.	n.r.	—	—	n.r.	—	—
Korea, Rep. Of	3,386,800	2,973,080	2,973,080	—	18,000	18,000	—
Laos [392]	n.r. [392]	n.r.	—	—	n.r.	—	—
Macao	14,364	14,364	—	0	0	0	0
Vietnam [400]	n.r. [400]	n.r.	—	—	n.r.	—	—
Total – World Zone 8	**66,251,000**	**66,008,416**	**5,858,713**	**39,968**	**696,361**	**261,640**	**116,239**
World Zone 9							
Afghanistan [405]	n.r. [405]	n.r. [411]	—	—	n.r.	—	—
Bahrain	72,564	72,564	72,564 [412]	—	—	—	—
‡Bhutan [520]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Burma [878]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
India [439]	2,785,096	2,390,565	2,390,565 *	—	—	—	—
Iran	1,227,293	1,227,293	1,227,293 *	—	0	0	0
Iraq [433]	n.r. [433]	n.r.	—	—	n.r.	—	—
Israel	1,230,000	1,230,000	1,230,000	—	0	0	0
Jordan [454]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Kuwait	214,763	206,239	—	—	8,524	—	—
Lebanon [450]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Maldives	1,061	1,061	—	—	0	0	0
Mongolia [486]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Nepal [445]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Oman [468]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.

Table 4 (continued)
Total Telephones (Automatic Switching, EMSS, ESS, LD and ISD Equipped)
Reported data as of January 1, 1981

AREA	TOTAL TELEPHONES	EMSS			ESS		
		NUMBER	LD EQUIPPED	ISD EQUIPPED	NUMBER	LD EQUIPPED	ISD EQUIPPED
World Zone 9 (continued)							
Pakistan	367,080 [458]	326,930 [447]	301,680	25,000	6,000 [447]	6,000	6,000
Qatar	53,324	53,324	–	–	0	–	–
Saudi Arabia	442,514	9,882	9,882	9,882	426,975	426,975	426,975
Sri Lanka	83,500	47,817	–	–	13,113	13,113	13,113
Syria [477]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Turkey	1,902,081	1,606,364	1,606,364 [*]	–	0	0	0
United Arab Emirates	208,896	28,856	28,856	28,856	180,040	180,040	180,040
Yemen (Aden) [617]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Yemen (Sanaa)	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Total – World Zone 9	**8,588,172**	**7,200,895**	**6,867,204**	**63,738**	**634,652**	**626,128**	**626,128**
TOTAL (ALL WORLD ZONES)	**508,285,866**	**402,202,469**	**261,970,531**	**79,786,842**	**100,766,900**	**93,824,130**	**79,615,775**

Table 5:

Total Telephones Connecting with United States from Foreign Sources (includes main telephones via ISD)

Reported data are as of January 1, 1981

AREA	TOTAL TELE-PHONES	NUMBER OF TELS. CONN. WITH U.S.	% OF TOTAL TELE-PHONES	TOTAL MAIN TELS.	TOTAL MAIN TELS. CONN. U.S. VIA ISD	% OF TOTAL MAIN TELS.	TOTAL BUS. MAIN TELS.	TOTAL BUS. MAIN TELS. CONN. U.S. VIA ISD	% OF TOTAL BUS. MAIN TELS.	TOTAL RES. MAIN TELS.	TOTAL RES. MAIN TELS. CONN. U.S. VIA ISD	% OF TOTAL RES. MAIN TELS.
World Zone 1												
Anguilla[224]	n.r.	n.r.	–	n.r.	n.r.	–	n.r.	n.r.	–	n.r.	n.r.	–
Antigua[226]	n.r.	n.r.	–	n.r.	n.r.	–	n.r.	n.r.	–	n.r.	n.r.	–
Bahamas	71,883	71,883	100.0	31,087	28,249	90.9	8,455	8,687	102.7	22,632	22,406	99.0
Barbados	66,679	66,679	100.0	43,404	5,780	13.3	6,813	1,384	20.3	36,591	4,396	12.0
Bermuda	46,290	46,290	100.0	20,361	20,361	100.0	2,943	2,943	100.0	17,418	17,418	100.0
Canada[884]	16,178,158	16,178,158	100.0	12,783,694*	9,739,442*	76.2	2,189,592*	1,668,211*	76.2	10,594,102*	8,071,231*	76.2
Cayman Islands[537]	n.r.	n.r.	–	n.r.	n.r.	–	n.r.	n.r.	–	n.r.	n.r.	–
‡Dominica[532]	n.r.	n.r.	–	n.r.	n.r.	–	n.r.	n.r.	–	n.r.	n.r.	–
Dominican Republic	165,253	165,253	100.0	105,388	100,469	95.3	24,630	23,672	96.1	80,758	76,797	95.1
Grenada[14]	5,648	5,648	100.0	3,024	–	–	763	–	–	2,261	–	–
Jamaica	119,402	119,402	100.0	54,876	34,034	62.0	20,604	15,103	73.3	34,272	18,931	55.2
Montserrat	2,602	2,602	100.0	1,623*	0	–	298*	0	–	1,325*	0	–
Puerto Rico	631,458	631,458	100.0	401,219	395,238	98.5	89,894	83,913	93.4	311,325	311,325	100.0
St. Kitts-Nevis[224]	n.r.[856]	n.r.	–	n.r.	n.r.	–	n.r.	n.r.	–	n.r.	n.r.	–
St. Lucia[852]	n.r.[852]	n.r.	–	n.r.	n.r.	–	n.r.	n.r.	–	n.r.	n.r.	–
St. Pierre and Miquelon	2,907	2,907	100.0	2,056	–	–	–	–	–	–	–	–
St. Vincent[860]	n.r.[860]	n.r.	–	n.r.	n.r.	–	n.r.	n.r.	–	n.r.	n.r.	–
‡Trinidad and Tobago[865]	n.r.[865]	n.r.	–	n.r.	n.r.	–	n.r.	n.r.	–	n.r.	n.r.	–
‡Turks and Caicos Islands	932	932	100.0	598	0	–	207[811]	0	–	391	0	–
United States[232]	191,595,000[783]	191,595,000	100.0	94,843,000	54,552,000[685]	57.5	16,310,000	8,811,700*	54.0	78,533,000	45,740,300*	58.2
Virgin Islands	41,175	41,175	100.0	26,276	26,276	100.0	6,832	6,832	100.0	19,444	19,444	100.0
Virgin Islands, British[851]	n.r.[851]	n.r.	–	n.r.	n.r.	–	n.r.	n.r.	–	n.r.	n.r.	–
Total – World Zone 1	**208,927,387**	**208,927,387**		**108,316,606**	**64,901,849**		**18,661,031**	**10,622,445**		**89,653,519**	**54,282,248**	
World Zone 2												
Algeria	484,973	484,973	100.0	312,392	–	–	–	–	–	–	–	–
Angola[60]	n.r.	n.r.	–	n.r.	n.r.	–	n.r.	n.r.	–	n.r.	n.r.	–
‡Ascension Island[74]	n.r.	n.r.	–	n.r.	n.r.	–	n.r.	n.r.	–	n.r.	n.r.	–
Benin[82]	n.r.	n.r.	–	n.r.	n.r.	–	n.r.	n.r.	–	n.r.	n.r.	–
Botswana[104]	n.r.	n.r.	–	n.r.	n.r.	–	n.r.	n.r.	–	n.r.	n.r.	–
Burundi[451]	n.r.	n.r.	–	n.r.	n.r.	–	n.r.	n.r.	–	n.r.	n.r.	–
Cameroon[472]	n.r.	n.r.	–	n.r.	n.r.	–	n.r.	n.r.	–	n.r.	n.r.	–
Cape Verde	1,739	1,739	100.0	1,500	–	–	493	–	–	1,007	–	–
Central African Republic[490]	n.r.	n.r.	–	n.r.	n.r.	–	n.r.	n.r.	–	n.r.	n.r.	–
Chad[639]	n.r.	n.r.	–	n.r.	n.r.	–	n.r.	n.r.	–	n.r.	n.r.	–
Comoros[659]	n.r.	n.r.	–	n.r.	n.r.	–	n.r.	n.r.	–	n.r.	n.r.	–
Congo[663]	n.r.	n.r.	–	n.r.	n.r.	–	n.r.	n.r.	–	n.r.	n.r.	–
Djibouti[671]	n.r.	n.r.	–	n.r.	n.r.	–	n.r.	n.r.	–	n.r.	n.r.	–
Egypt	534,021	357,715	67.0	395,426[40]	1,250	0.3	149,992[40]	–	–	245,434[40]	–	–
Equatorial Guinea	n.r.	n.r.	–	n.r.	n.r.	–	n.r.	n.r.	–	n.r.	n.r.	–
Ethiopia	87,846	87,846	100.0	–	53,753	–	–	14,833	–	–	38,920	–
Gabon	11,600	11,500	99.1	8,689	0	–	2,523	0	–	6,166	0	–
Gambia[89]	n.r.	n.r.	–	n.r.	n.r.	–	n.r.	n.r.	–	n.r.	n.r.	–
Ghana[629]	n.r.	n.r.	–	n.r.	n.r.	–	n.r.	n.r.	–	n.r.	n.r.	–
Guinea-Bissau[44]	n.r.[44]	n.r.	–	n.r.	–	–	n.r.	–	–	n.r.	–	–
Guinea, Rep. Of[673]	n.r.	n.r.	–	n.r.	n.r.	–	n.r.	n.r.	–	n.r.	n.r.	–
Ivory Coast[824]	n.r.	n.r.	–	n.r.	n.r.	–	n.r.	n.r.	–	n.r.	n.r.	–
Kenya	198,294	198,294	100.0	83,649*	n.a.	–	n.a.	n.a.	–	n.a.	n.a.	–
Lesotho[822]	n.r.	n.r.	–	n.r.	n.r.	–	n.r.	n.r.	–	n.r.	n.r.	–
Liberia[820]	n.r.	n.r.	–	n.r.	n.r.	–	n.r.	n.r.	–	n.r.	n.r.	–
Libya	n.r.	n.r.	–	n.r.	n.r.	–	n.r.	n.r.	–	n.r.	n.r.	–
Malagasy (Madagascar)[222]	n.r.	n.r.	–	n.r.	n.r.	–	n.r.	n.r.	–	n.r.	n.r.	–
Malawi	15,130	15,130	100.0	12,152	11,493	94.6	7,036*	n.a.	–	5,116	n.a.	–
Mali[123]	n.r.	n.r.	–	n.r.	n.r.	–	n.r.	n.r.	–	n.r.	n.r.	–
Mauritania[814]	n.r.	n.r.	–	n.r.	n.r.	–	n.r.	n.r.	–	n.r.	n.r.	–
Mauritius	37,812	37,812	100.0	21,957	0	–	7,699	0	–	14,258	0	–
Morocco[815]	n.r.	n.r.	–	n.r.	n.r.	–	n.r.	n.r.	–	n.r.	n.r.	–
Mozambique[827]	n.r.	n.r.	–	n.r.	n.r.	–	n.r.	n.r.	–	n.r.	n.r.	–
Namibia (South West Africa)	54,281	54,178	99.8	31,485	24,377	77.4	6,568	7,654	116.5	24,917	16,723	67.1
Niger[840]	n.r.	n.r.	–	n.r.	n.r.	–	n.r.	n.r.	–	n.r.	n.r.	–
Nigeria[843]	n.r.	n.r.	–	n.r.	n.r.	–	n.r.	n.r.	–	n.r.	n.r.	–
Reunion	60,296	60,296	100.0	38,111	–	–	–	–	–	–	–	–
Rwanda[847]	n.r.	n.r.	–	n.r.	n.r.	–	n.r.	n.r.	–	n.r.	n.r.	–
‡Saint Helena[71]	n.r.	n.r.	–	n.r.	n.r.	–	n.r.	n.r.	–	n.r.	n.r.	–
Sao Tome and Principe[803]	n.r.	n.r.	–	n.r.	n.r.	–	n.r.	n.r.	–	n.r.	n.r.	–
Senegal[816]	n.r.	n.r.	–	n.r.	n.r.	–	n.r.	n.r.	–	n.r.	n.r.	–
Seychelles	7,105	7,105	100.0	3,420	0	–	n.a.	0	–	n.a.	0	–
Sierre Leone[879]	n.r.	n.r.	–	n.r.	n.r.	–	n.r.	n.r.	–	n.r.	n.r.	–
Somalia[704]	n.r.	n.r.	–	n.r.	n.r.	–	n.r.	n.r.	–	n.r.	n.r.	–
South Africa	2,932,983	2,904,864	99.0	1,546,408	1,544,376	99.9	253,657	430,800	169.8	1,292,751	1,113,576	86.1
Bophuthatswana[514]	10,995	10,995	100.0	4,758	–	–	1,406	–	–	3,352	–	–
Ciskei[515]	n.r.	n.r.	–	n.r.	n.r.	–	n.r.	n.r.	–	n.r.	n.r.	–
Transkei[514]	n.r.	n.r.	–	n.r.	n.r.	–	n.r.	n.r.	–	n.r.	n.r.	–
Venda[514]	n.r.	n.r.	–	n.r.	n.r.	–	n.r.	n.r.	–	n.r.	n.r.	–
Sudan	65,038	65,038	100.0	45,607	0	–	30,642	0	–	14,965	0	–

Table 5: (continued)
Total Telephones Connecting with United States from Foreign Sources
Reported data as of January 1, 1981

AREA	TOTAL TELE-PHONES	NUMBER OF TELS. CONN. WITH U.S.	% OF TOTAL TELE-PHONES	TOTAL MAIN TELS.	TOTAL MAIN TELS. CONN. U.S. VIA ISD	% OF TOTAL MAIN TELS.	TOTAL BUS. MAIN TELS.	TOTAL BUS. MAIN TELS. CONN. U.S. VIA ISD	% OF TOTAL BUS. MAIN TELS.	TOTAL RES. MAIN TELS.	TOTAL RES. MAIN TELS. CONN. U.S. VIA ISD	% OF TOTAL RES. MAIN TELS.
Swaziland	12,028	10,023*	83.3	5,209*	2,962	56.9	3,061	–	–	2,148	–	–
Tanzania	93,238	93,238[521]	100.0	–	–	–	–	–	–	–	–	–
Togo	7,870	7,870	100.0	5,942	–	–	–	–	–	–	–	–
Tunisia	188,476	188,476	100.0	112,355	14,288	12.7	–	–	–	–	–	–
Uganda[707]	n.r.	n.r.	–	n.r.	n.r.	–	n.r.	n.r.	–	n.r.	n.r.	–
Upper Volta[881]	n.r.	n.r.	–	n.r.	n.r.	–	n.r.	n.r.	–	n.r.	n.r.	–
Zaire[882]	n.r.	n.r.	–	n.r.	n.r.	–	n.r.	n.r.	–	n.r.	n.r.	–
Zambia[883]	n.r.	n.r.	–	n.r.	n.r.	–	n.r.	n.r.	–	n.r.	n.r.	–
Zimbabwe (Rhodesia)	224,452	224,452	100.0	86,496	0	–	28,543	0	–	57,593	0	–
Total – World Zone 2	**5,028,177**	**4,821,544**		**2,715,556**	**1,652,499**		**491,620**	**453,287**		**1,667,707**	**1,169,219**	
World Zone 3&4												
Albania[102]	n.r.[102]	0	–	n.r.	0	–	n.r.	0	–	n.r.	0	–
†Andorra	15,785	15,785	100.0	8,922	0	–	–	–	–	–	–	–
Austria	3,010,110	2,191,030	72.8	2,191,030	n.a.	–	–	n.a.	–	–	n.a.	–
Belgium	3,636,074	3,636,074	100.0	2,462,947	–	–	– [550]	–	–	– [550]	–	–
Bulgaria	1,255,792	1,255,792	100.0	919,976	–	–	273,025	–	–	646,951	–	–
Cyprus	113,437	111,879	98.6	73,809	75,187	101.9	–	–	–	–	–	–
Czechoslovakia	3,150,477	3,150,477	100.0	1,648,696	–	–	526,524	–	–	1,122,172	–	–
Denmark[165]	3,316,709	3,316,709	100.0	2,249,114	0	–	–	n.a.	–	–	n.a.	–
Finland	2,374,461	2,374,461	100.0	1,615,591	n.a.	–	–	n.a.	–	–	n.a.	–
France	24,686,319	24,686,319	100.0	15,790,516	15,498,601	98.2	n.a.	n.a.	–	n.a.	n.a.	–
(5) French Guiana[244]	18,134	18,134	100.0	11,227	1,156	10.3	–	–	–	–	–	–
(6) French Polynesia[244]	22,523	22,523	100.0	11,407	–	–	–	–	–	–	–	–
(5) Guadeloupe[244]	50,207	50,207	100.0	34,508	34,508	100.0	–	–	–	–	–	–
(5) Martinique[244]	64,154	64,154	100.0	40,816	40,816	100.0	–	–	–	–	–	–
(6) New Caledonia[244,318]	27,953	14,150	50.6	14,807	–	–	–	–	–	–	–	–
(2) Reunion[244]	60,296	60,296	100.0	38,111	–	–	–	–	–	–	–	–
(2) St. Pierre and Miquelon[244]	2,907	2,907	100.0	2,056	–	–	–	–	–	–	–	–
(6) Wallis and Futuna Islands	n.r.	n.r.	–	n.r.	n.r.	–	n.r.	n.r.	–	n.r.	n.r.	–
German Dem. Rep.	3,156,661	3,156,661	100.0	1,355,667	–	–	597,572	–	–	758,095	–	–
Germany, Fed. Rep.[81]	28,553,622	28,553,622	100.0	20,850,306	20,850,306	100.0	– [196]	–	–	–	–	–
Gibraltar	9,388[133]	9,388	100.0	6,585	0	–	1,752	0	–	4,833	0	–
Greece	2,796,435	2,796,435	100.0	2,270,406	2,255,132	99.3	681,122*	676,540*	99.3	1,589,284*	1,578,592*	99.3
†Guernsey – Channel Islands	37,070	37,070	100.0	22,556	21,894	97.1	n.a.	–	–	n.a.	–	–
Hungary	1,261,295	1,057,725[145]	83.9	617,243	0	–	212,940	0	–	404,303	0	–
Iceland	108,767	108,767	100.0	84,837[151]	–	–	n.a.	–	–	n.a.	–	–
Ireland	650,017	650,017	100.0	474,883	–	–	202,000	–	–	272,000	–	–
Italy	19,269,340	19,269,340	100.0	13,011,815	n.a.	–	3,097,664	n.a.	–	9,914,151	n.a.	–
†Jersey – Channel Islands	52,658	52,658	100.0	31,497[117]	31,497	100.0	8,665	8,665	100.0	22,832	22,832	100.0
Liechtenstein	20,017	20,017*	100.0	10,038	10,038*	100.0	2,665	–	–	7,373	–	–
Luxembourg[103]	n.r.	n.r.	–	n.r.	n.r.	–	n.r.	n.r.	–	nr.	n.r.	–
Malta	82,735	82,735	100.0	53,669	0	–	9,660*	0	–	44,009*	0	–
Monaco[782]	n.r.	n.r.	–	n.r.	n.r.	–	n.r.	n.r.	–	n.r.	n.r.	–
Netherlands	7,230,000*	7,230,000	100.0	4,892,000	4,892,000	100.0	n.a.	n.a.	–	n.a.	n.a.	–
Norway	1,851,683	1,851,683	100.0	1,085,415	997,496	91.9	n.a.	n.a.	–	n.a.	n.a.	–
Poland	3,387,396	3,387,396	100.0	1,865,269	–	–	595,714	–	–	1,269,555	–	–
Portugal	1,371,731	1,371,731	100.0	989,470	0	–	n.a.	0	–	n.a.	0	–
Romania[169]	n.r.[169]	n.r.	–	n.r.	n.r.	–	n.r.	n.r.	–	n.r.	n.r.	–
†San Marino	7,685	7,685	100.0	–	n.a.	–	–	n.a.	–	–	n.a	–
Spain	11,844,623	11,844,623	100.0	6,871,519	2,280,287	33.2	2,336,472	–	–	4,535,047	4,005,000	–
Sweden	6,621,000	6,621,000	100.0	4,400,000	4,400,000	100.0	395,000	395,000	100.0	4,005,000	–	100.0
Switzerland	4,612,382	3,680,130	79.8	2,839,461	3,642,830	128.3	709,655	–	–	2,129,806	–	–
United Kingdom[325]	27,784,447	27,784,447	100.0	18,542,989	18,542,989*	100.0	–	–	–	–	–	–
Yugoslavia	2,133,225	2,120,315[182]	99.4	1,556,274	–	–	361,654*	–	–	1,194,620*	–	–
Total – World Zone 3&4	**164,401,341**	**162,431,971**		**108,792,500**	**73,498,257**		**10,012,084**	**1,080,205**		**27,920,031**	**5,606,424**	
World Zone 5												
Argentina	2,880,754	2,369,043[200]	82.2	2,023,432	–	–	552,341	–	–	1,471,091	–	–
Belize	6,250	6,250	100.0	3,847	n.a.	–	1,821	n.a.	–	2,026	–	–
Bolivia	135,100	135,100	100.0	135,100	–	–	–	–	–	–	–	–
Brazil	7,496,000	7,346,829	98.0	4,703,305	4,468,139	95.0	2,304,619	2,189,388	95.0	2,398,685	2,278,750	95.0
Chile	569,969	569,969	100.0	363,039	–	–	117,406	–	–	245,633	–	–
Colombia	1,623,105	1,623,105	100.0	1,322,285	5,386	0.4	409,908	–	–	912,377	–	–
Costa Rica	236,132	236,132	100.0	151,061	148,384	98.2	34,208	37,096	108.4	116,853	111,288	95.2
Cuba[210]	n.r.[210]	n.a.	–	n.r.	–	–	n.r.	–	–	n.r.	–	–
Ecuador[417]	n.r.	n.r.	–	n.r.	n.r.	–	n.r.	n.r.	–	n.r.	n.r.	–
El Salvador	75,920	73,526*	96.9	65,661	59,607	90.8	–	18,788	–	–	40,819	–
†Falkland Islands[340]	n.r.	n.r.	–	n.r.	n.r.	–	n.r.	n.r.	–	n.r.	n.r.	–
French Guiana	18,134	18,134	100.0	11,227	1,156	10.3	–	–	–	–	–	–
Guadeloupe	50,207	50,207	100.0	34,508	34,508	100.0	–	–	–	–	–	–
Guatemala	81,622	–	–	80,143	80,839	100.9	–	27,207	–	–	54,415	–
Guyana[449]	n.r.	n.r.	–	n.r.	n.r.	–	n.r.	n.r.	–	n.r.	n.r.	–
Haiti[626]	n.r.	n.r.	–	n.r.	n.r.	–	n.r.	n.r.	–	n.r.	n.r.	–
Honduras	n.r.	n.r.	–	n.r.	n.r.	–	n.r.	n.r.	–	n.r.	n.r.	–
Martinique	64,154	64,154	100.0	40,816	40,816	100.0	–	–	–	–	–	–

AREA	TOTAL TELE-PHONES	NUMBER OF TELS. CONN. WITH U.S.	% OF TOTAL TELE-PHONES	TOTAL MAIN TELS.	TOTAL MAIN TELS. CONN. U.S. VIA ISD	% OF TOTAL MAIN TELS.	TOTAL BUS. MAIN TELS.	TOTAL BUS. MAIN TELS. CONN. U.S. VIA ISD	% OF TOTAL BUS. MAIN TELS.	TOTAL RES. MAIN TELS.	TOTAL RES. MAIN TELS. CONN. U.S. VIA ISD	% OF TOTAL RES. MAIN TELS.
Mexico	5,082,718[253]	5,082,718	100.0	2,661,313[255]	2,599,243[256]	97.7	724,216[771]	724,506[256]	100.0	1,937,097[270]	1,874,737[257]	96.8
Netherlands Antilles[553]	n.r.	n.r.	–	n.r.	n.r.	–	n.r.	n.r.	–	n.r.	n.r.	–
Nicaragua[723]	n.r.	n.r.	–	n.r.	n.r.	–	n.r.	n.r.	–	n.r.	n.r.	–
Panama	191,913	182,557	95.1	145,194	56,321	38.8	29,676	14,788	49.8	115,518	41,533	36.0
Paraguay	58,713	56,388	96.0	49,678	–	–	19,204	–	–	30,474	–	–
Peru	487,123[590]	487,123[237]	100.0	292,011[247]	–	–	80,885[599]	–	–	211,126[598]	–	–
Suriname[745]	n.r.	n.r.	–	n.r.	n.r.	–	n.r.	n.r.	–	n.r.	n.r.	–
Uruguay	287,140	259,240[261]	90.3	220,182	–	–	57,913	–	–	162,269	–	–
Venezuela[163]	n.a.	n.a.	–	n.a.	n.a.	–	n.a.	n.a.	–	n.a.	n.a.	–
Total – World Zone 5	**19,344,954**	**18,560,475**		**12,302,802**	**7,494,399**		**4,332,197**	**3,011,773**		**7,603,149**	**4,401,542**	
World Zone 6												
American Samoa	5,210	5,210	100.0	3,530	5,210	147.6	1,023	2,507	245.1	2,507	1,023	40.8
Australia[813]	7,684,336	7,684,336	100.0	5,069,342	4,816,625	95.0	1,389,533	n.a.	–	3,679,805	n.a.	–
‡Banaba (Ocean) Island[342]	0	0	–	0	0	–	0	0	–	0	0	–
Brunei	17,930	17,930	100.0	11,107	7,979	71.8	n.a.	n.a.	–	n.a.	n.a.	–
‡Cocos (Keeling) Island	142[302]	142[303]	100.0	0	0	–	0	0	–	0	0	–
Cook Islands[526]	n.r.	n.r.	–	n.r.	n.r.	–	n.r.	n.r.	–	n.r.	n.r.	–
Fiji	45,323	45,323	100.0	23,381	–	–	–	–	–	–	–	–
French Polynesia	22,523	22,523	100.0	11,407	–	–	–	–	–	–	–	–
Guam, Mariana Islands	27,982	27,982	100.0	19,415	19,415	100.0	3,580	3,580	100.0	15,835	15,835	100.0
Indonesia[536]	n.r.	n.r.	–	n.r.	n.r.	–	n.r.	n.r.	–	n.r.	n.r.	–
Kiribati (Gilbert Islands)[351]	724	724	100.0	571	0	–	–	0	–	–	0	–
‡Kiritimati (Christmas Island)[399]	461	461	100.0	382	0	–	223	0	–	159	0	–
‡Kwajalein	5,790	1,500	25.9	3,860	0	–	2,860	0	–	1,000	0	–
Malaysia	596,972	596,972	100.0	394,423	714	0.2	166,249	558	0.3	228,174	156	<0.1
‡Midway Islands[540]	n.r.	n.r.	–	n.r.	n.r.	–	nr.	n.r.	–	n.r.	n.r.	–
Nauru[543]	n.a.	n.a.	–	n.a.	n.a.	–	n.a.	n.a.	–	n.a.	n.a.	–
New Caledonia[318]	27,953	14,150	50.6	14,807	–	–	–	–	–	–	–	–
New Zealand	1,798,802	1,798,802	100.0	1,136,522	582,055	51.2	203,928	104,819	51.4	932,594	471,407	50.6
Niue[559]	n.a.	n.a.	–	n.a.	n.a.	–	n.a.	n.a.	–	n.a.	n.a.	–
‡Norfolk Island	826	826	100.0	554	–	–	220	–	–	334	–	–
‡Northern Marianas[188]	2,258	2,258	100.0	1,606	0	–	806	0	–	800	0	–
‡Palau (Micronesia)[493]	1,048	1[334]	<0.1	830	1	0.1	398	1	0.3	432	–	–
Papua New Guinea	49,330	49,330	100.0	25,422	0[326]	–	n.a.	0	–	n.a.	0	–
Philippines[502]	537,795	537,795	100.0	314,524	n.a.	–	118,864	n.a.	–	195,660	n.a.	–
‡Pitcairn Island	25	0	–	25	0	–	9	0	–	16	0	–
Singapore	702,219	702,219	100.0	499,205	9,622	1.9	112,816	9,622[352]	8.5	386,389	–[352]	–
Solomon Islands	2,474	2,474	100.0	1,183	0	–	n.a.	0	–	n.a.	0	–
Thailand	496,558	496,558[354]	100.0	349,325	–	–	171,496	–	–	177,829	–	–
‡Tokelau Islands[425]	0	0	–	0	0	–	0	0	–	0	0	–
Tonga	2,196	2,196	100.0	1,176	0	–	227	0	–	949	0	–
Tuvalu[401]	0	0	–	0	0	–	0	0	–	0	0	–
Vanuatu (New Hebrides)	3,000	3,000	100.0	1,700	–	–	–	–	–	–	–	–
‡Wake Island[400]	n.r.	n.r.	–	n.r.	n.r.	–	n.r.	n.r.	–	n.r.	n.r.	–
Wallis and Futuna Islands	n.r.	n.r.	–	n.r.	n.r.	–	n.r.	n.r.	–	n.r.	n.r.	–
Western Samoa	5,918	5,918[357]	100.0	3,979	–	–	1,000	–	–	2,979	–	–
Total – World Zone 6	**12,037,796**	**12,018,630**		**7,888,276**	**5,441,621**		**2,173,232**	**121,087**		**5,625,462**	**488,421**	
World Zone 7												
USSR (Soviet Union)	23,707,000	23,707,000	100.0	20,148,000	–	–	–	–	–	–	–	–
Total – World Zone 7	**23,707,000**	**23,707,000**		**20,148,000**	–	–	–	–	–	–	–	–
World Zone 8												
Bangladesh[755]	n.r.	n.r.	–	n.r.	n.r.	–	n.r.	n.r.	–	n.r.	n.r.	–
China												
Mainland[503]	n.r.[367]	n.r.	–	n.r.	–	–	n.r.	–	–	n.r.	–	–
Taiwan	3,166,169	3,138,204	99.1	2,160,494	74,007	3.4	649,795	–	–	1,510,699	–	–
Hong Kong	1,676,298	1,676,298	100.0	1,278,866[378]	55,337[373]	4.3	310,100	20,157[373]	6.5	968,766	35,180[373]	3.6
Japan[476]	58,007,409[381]	55,402,547	95.5	41,335,154[383]	51,393	0.1	n.a.	n.a.	–	n.a.	n.a.	–
Kampuchea[387]	n.r.[387]	n.r.	–	n.r.	–	–	n.r.	–	–	n.r.	–	–
‡Korea, Dem. Peo. Rep.	n.r.	n.r.	–	n.r.	–	–	n.r.	–	–	n.r.	–	–
Korea, Rep. of	3,386,800	3,386,800	100.0	2,762,095	–	–	1,028,695	–	–	1,733,400	–	–

Table 5: (continued)
Total Telephones Connecting with United States from Foreign Sources
Reported data as of January 1, 1981

AREA	TOTAL TELE-PHONES	NUMBER OF TELS. CONN. WITH U.S.	% OF TOTAL TELE-PHONES	TOTAL MAIN TELS.	TOTAL MAIN TELS. CONN. U.S. VIA ISD	% OF TOTAL MAIN TELS.	TOTAL BUS. MAIN TELS.	TOTAL BUS. MAIN TELS. CONN. U.S. VIA ISD	% OF TOTAL BUS. MAIN TELS.	TOTAL RES. MAIN TELS.	TOTAL RES. MAIN TELS. CONN. U.S. VIA ISD	% OF TOTAL RES. MAIN TELS.
Laos [392]	n.r. [392]	n.r.	–	n.r.	–	–	n.r.	–	–	n.r.	–	–
Macao	14,364	14,364	100.0	14,364	0	–	6,177	0	–	8,187	0	–
Vietnam [400]	n.r. [400]	n.r.	–	n.r.	–	–	n.r.	–	–	n.r.	–	–
Total – World Zone 8	66,251,040	63,618,213		47,550,973	180,737		1,994,767	20,157		4,221,052	35,180	
World Zone 9												
Afghanistan [405]	n.r. [405]	n.r.	–	n.r.	n.r.	–	n.r.	–	–	n.r.	–	–
Bahrain	72,564	72,564	100.0	n.a.	n.a.	–	n.a.	n.a.	–	n.a.	n.a.	–
Bhutan [520]	n.r.	n.r.	–	n.r.	n.r.	–	n.r.	n.r.	–	n.r.	n.r.	–
Burma [478]	n.r.	n.r.	–	n.r.	n.r.	–	n.r.	n.r.	–	n.r.	n.r.	–
India [439]	2,785,096	2,785,096	100.0	2,104,272	–	–	–	–	–	–	–	–
Iran	1,227,293	1,227,293	100.0	–	1,004,724	–	–	–	–	–	–	–
Iraq [433]	n.r. [433]	n.r.	–	n.r.	–	–	n.r.	–	–	n.r.	–	–
Israel	1,230,000	1,230,000	100.0	n.a.	1,070,100	–	n.a.	n.a.	–	n.a.	n.a.	–
Jordan [454]	n.r.	n.r.	–	n.r.	n.r.	–	n.r.	n.r.	–	n.r.	n.r.	–
Kuwait	214,763	214,763	100.0	157,486	3,405 [421]	2.2	52,495	–	–	104,991	–	–
Lebanon [450]	n.r.	n.r.	–	n.r.	n.r.	–	n.r.	n.r.	–	n.r.	n.r.	–
Maldives	1,061	1,061	100.0	1,061	n.r.	–	507	–	–	554	–	–
Mongolia [456]	n.r.	n.r.	–	n.r.	n.r.	–	n.r.	n.r.	–	n.r.	n.r.	–
Nepal [445]	n.r.	n.r.	–	n.r.	n.r.	–	n.r.	n.r.	–	n.r.	n.r.	–
Oman [465]	n.r.	n.r.	–	n.r.	n.r.	–	n.r.	n.r.	–	n.r.	n.r.	–
Pakistan	367,080 [456]	259,230	70.6	344,420 [457]	–	–	–	–	–	–	–	–
Qatar	53,324	53,324 [447]	100.0	n.a.	0 [447]	–	n.a.	0 [447]	–	n.a.	0 [447]	–
Saudi Arabia	442,514	436,857	98.7	407,114	107,386	26.4	93,790	49,115*	52.4	313,324	58,271*	18.6
Sri Lanka	83,500	550	0.7	60,930	550	0.9	–	525	–	–	25	–
Syria [477]	n.r.	n.r.	–	n.r.	n.r.	–	n.r.	n.r.	–	n.r.	n.r.	–
Turkey	1,902,081	1,902,081	100.0	1,147,782	–	–	542,397	–	–	605,385	–	–
United Arab Emirates	208,896	208,896	100.0	109,495	109,495	100.0	34,866	34,866	100.0	74,629	74,629	–
Yemen (Aden) [517]	n.r.	n.r.	–	n.r.	n.r.	–	n.r.	n.r.	–	n.r.	n.r.	–
Yemen (Sanaa)	n.r.	n.r.	–	n.r.	n.r.	–	n.r.	n.r.	–	n.r.	n.r.	–
Total – World Zone 9	8,588,172	8,391,715		4,332,560	2,295,660		724,055	84,506		1,098,883	132,925	
TOTAL (ALL WORLD ZONES)	508,285,866	502,476,935		312,047,273	155,465,022		38,388,996	15,393,460		137,789,803	66,115,959	

Table 6:

Main and Extension Telephones (business and residence)

Reported data are as of January 1, 1981

AREA	MAIN		EXT. & P. B. X.		BUSINESS			RESIDENCE		
	NUMBER	% OF TOTAL	NUMBER	% OF TOTAL	NUMBER	% OF TOTAL	EXTENSION AS % OF MAIN BUS.	NUMBER	% OF TOTAL	EXTENSION AS % OF MAIN RES.
World Zone 1										
Anguilla[224]	n.r.	n.r.	n.r.	–	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Antigua	n.r.	n.r.	n.r.	–	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Bahamas	31,087	43.2	40,796	56.8	37,884	52.7	154.3	33,999	47.3	50.2
Barbados	43,404	65.1	23,275	34.9	25,793	38.7	127.1	40,886	61.3	11.7
Bermuda	20,361	44.0	25,929	56.0	20,561	44.4	47.9*	25,729	55.6	47.7
Canada[994]	12,783,694*	79.0*	3,394,464*	21.0	5,036,200	31.1	34.2*	11,142,949	68.9	15.6
Cayman Islands[517]	n.r.	n.r.	n.r.	–	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
† Dominica[537]	n.r.	n.r.	n.r.	–	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Dominican Republic	105,388	63.8	59,865	36.2	65,237	39.5	36.8	100,016	60.5	23.8
Grenada[74]	3,024	53.5	2,624	46.5	2,757	48.8	115.7	2,891	51.2	27.9
Jamaica	54,876	46.0	64,526	54.0	78,896	66.1	36.4	40,504	33.9	24.0
Montserrat	1,623*	62.4*	n.a.	–	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Puerto Rico	401,219	63.5	230,239	36.5	320,133	50.7	68.5	311,325	49.3	19.9
St. Kitts-Nevis[234]	n.r.	n.r.	n.r.	–	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
St. Lucia[802]	n.r.	n.r.	n.r.	–	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
St. Pierre and Miquelon	2,056	70.7	851[676]	29.3	–	–	–	–	–	–
St. Vincent[802]	n.r.	n.r.	n.r.	–	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
† Trinidad and Tobago[803]	n.r.	n.r.[803]	n.r.[803]	–	n.r.	n.r.	n.r.	n.r.[965]	n.r.	n.r.
† Turks and Caicos Islands	599	64.2	334[672]	35.8	433[672]	46.5[965]	n.a.	499	53.5	n.a.
United States[222]	94,843,000[222]	49.5	96,752,000[222]	50.5	53,189,000[222]	27.8	71.5	138,406,000	72.2	76.2
Virgin Islands	26,276	62.8	14,899	36.2	17,918	43.3	69.5	23,357	56.7	24.1
Virgin Islands, British[801]	n.r.	n.r.	n.r.	–	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Total – World Zone 1	**108,316,606**		**100,609,802**		**58,794,723**			**150,128,155**		
World Zone 2										
Algeria	312,392	64.4	172,581	35.6	–	–	–	–	–	–
Angola[90]	n.r.	n.r.	n.r.	–	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
† Ascension Island[79]	n.r.	n.r.	n.r.	–	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Benin[57]	n.r.	n.r.	n.r.	–	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Botswana[236]	n.r.	n.r.	n.r.	–	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Burundi[861]	n.r.	n.r.	n.r.	–	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Cameroon[472]	n.r.	n.r.	n.r.	–	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Cape Verde	1,500	86.3	239	13.7	732	42.1	28.2	1,007	57.9	0.0
Central African Republic[482]	n.r.	n.r.	n.r.	–	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Chad[419]	n.r.	n.r.	n.r.	–	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Comoros[654]	n.r.	n.r.	n.r.	–	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Congo[242]	n.r.	n.r.	n.r.	–	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Djibouti[477]	n.r.	n.r.	n.r.	–	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Egypt	395,426[40]	74.0[40]	–	–	–	–	–	–	–	–
Equatorial Guinea	n.r.	n.r.	n.r.	–	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Ethiopia	–	–	–	–	–	–	–	–	–	–
Gabon	8,689	74.9	2,911[478]	25.1	–	–	–	–	–	–
Gambia[86]	n.r.	n.r.	n.r.	–	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Ghana[429]	n.r.	n.r.	n.r.	–	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Guinea – Bissau[44]	n.r.	n.r.	n.r.	–	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Guinea, Rep. of[472]	n.r.	n.r.	n.r.	–	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Ivory Coast[424]	n.r.	n.r.	n.r.	–	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Kenya	83,649*	42.2*	114,645	57.8	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Lesotho[822]	n.r.	n.r.	n.r.	–	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Liberia[870]	n.r.	n.r.	n.r.	–	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Libya	n.r.	n.r.	n.r.	–	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Malagasy (Madagascar)[261]	n.r.	n.r.	n.r.	–	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Malawi	12,152	80.3	2,944	19.5	8,741*	57.8*	n.a.	6,389*	42.2*	n.a.
Mali[121]	n.r.	n.r.	n.r.	–	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Mauritania[814]	n.r.	n.r.	n.r.	–	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Mauritius	21,957	58.1	15,855*	41.9*	20,594*	54.4*	39.0*	172,584*	78.6*	21.0*
Morocco[810]	n.r.	n.r.	n.r.	–	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Mozambique[827]	n.r.	n.r.	n.r.	–	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Namibia (South West Africa)	31,485	58.0	22,796	42.0	28,566	52.6	22.3	25,715	47.4	3.2
Niger[840]	n.r.	n.r.	n.r.	–	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Nigeria[843]	n.r.	n.r.	n.r.	–	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Reunion	38,111	63.2	22,185[638]	36.8	–	–	–	–	–	–
Rwanda[847]	n.r.	n.r.	n.r.	–	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
† Saint Helena[71]	n.r.	n.r.	n.r.	–	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Sao Tome and Principe[810]	n.r.	n.r.	n.r.	–	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Senegal[876]	n.r.	n.r.	n.r.	–	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Seychelles	3,420	48.1	3,685[802]	51.9	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Sierra Leone[878]	n.r.	n.r.	n.r.	–	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Somalia[734]	n.r.	n.r.	n.r.	–	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
South Africa	1,546,406	52.7	1,386,575[90]	47.3	1,561,402	53.2	24.8	1,371,581	46.8	6.1
Bophuthatswana[274]	4,758	43.3	6,237	56.7	4,238	38.5	141.6	6,757	61.5	101.6
Ciskei[275]	n.r.	n.r.	n.r.	–	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Transkei[274]	n.r.	n.r.	n.r.	–	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Venda[274]	n.r.	n.r.	n.r.	–	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Sudan	45,607	70.1	19,431	29.9	45,570	70.1	8.0	19,468	29.9	30.1

Table 6: (continued)
Main and Extension Telephones
Reported data as of January 1, 1981

AREA	MAIN		EXT. & P. B. X.		BUSINESS			RESIDENCE		
	NUMBER	% OF TOTAL	NUMBER	% OF TOTAL	NUMBER	% OF TOTAL	EXTENSION AS % OF MAIN BUS.	NUMBER	% OF TOTAL	EXTENSION AS % OF MAIN RES.
World Zone 2 (Continued)										
Swaziland	5,209*	43.3*	6,819*	56.7	7,068*	58.8*	178.3	4,960	41.2	7.5
Tanzania	—	—	—	—	—	—	—	—	—	—
Togo	5,942	75.5	1,928	24.5	—	—	—	—	—	—
Tunisia	112,355	59.6	76,121	40.4	—	—	—	—	—	—
Uganda [707]	n.r.	n.r.	n.r.	—	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Upper Volta [881]	n.r.	n.r.	n.r.	—	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Zaire [882]	n.r.	n.r.	n.r.	—	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Zambia [883]	n.r.	n.r.	n.r.	—	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Zimbabwe (Rhodesia)	86,496	38.5	137,956	61.5	154,755	68.9	20.3	69,697	31.1	20.4
Total – World Zone 2	**2,715,556**		**1,992,908**		**1,831,626**			**1,678,158**		
World Zone 3 & 4										
Albania [102]	n.r.	n.r.	n.r.	—	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
‡ Andorra	8,922	56.5	6,863	43.5	—	—	—	—	—	—
Austria	2,191,030	72.8	819,080	27.2	—	—	n.a.	—	—	n.a.
Belgium	2,462,947	67.7	1,173,127	32.3	— [550]	—	— [550]	— [550]	—	— [550]
Bulgaria	919,976	73.3	335,816	26.7	608,841	48.5	15.7	646,951	51.5	0.0
Cyprus	73,809	65.1	39,628	34.9	—	—	—	—	—	—
Czechoslovakia	1,648,696	52.3	1,501,781	47.7	2,028,305	64.4	239.3	1,122,172	35.6	—
Denmark [165]	2,249,114	67.8	1,067,595	32.2	—	—	—	—	—	—
Finland	1,615,591	68.0	758,870	32.0	—	—	—	—	—	—
France	15,790,516	64.0	8,895,803	36.0	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
(5) French Guiana [244]	11,227	61.9	6,907 [833]	38.1	—	—	—	—	—	—
(6) French Polynesia [244]	11,407	50.6	11,116	49.4	—	—	—	—	—	—
(5) Guadeloupe [244]	34,508	68.7	15,699 [837]	31.3	—	—	—	—	—	—
(5) Martinique [244]	40,816	63.6	23,338 [829]	36.4	—	—	—	—	—	—
(6) New Caledonia [244, 318]	14,807	53.0	13,146	47.0	—	—	—	—	—	—
(2) Reunion [244]	38,111	63.2	22,185 [818]	36.8	—	—	—	—	—	—
(1) St. Pierre and Miquelon [244]	2,056	70.7	851 [825]	29.3	—	—	—	—	—	—
(6) Wallis and Futuna Islands [244]	n.r.	n.r.	n.r.	—	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
German Dem. Rep.	1,355,667	42.9	1,800,994	57.1	1,391,442*	44.1*	—	1,765,219*	55.9*	—
Germany, Fed. Rep. [81]	20,850,306	73.0	7,703,316 [195]	27.0	— [196]	—	— [196]	— [196]	—	— [196]
Gibraltar	6,585	70.1	2,803	29.9	4,531	48.3	65.5	4,857	51.7	0.5
Greece	2,270,406	81.2	526,029	18.8	—	—	—	—	—	—
‡ Guernsey-Channel Islands	22,556	60.8	14,514	39.2	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Hungary	617,243	48.9	644,052	51.5	856,992	67.9	31.8	404,303	32.1	0.0
Iceland	84,337 [151]	78.0	578	0.5	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Ireland	474,883	73.1	175,134 [498]	26.9	281,000 [499]	43.2 [499]	33.7	369,017 [499]	56.8 [499]	36.3
Italy	13,011,815	67.5	6,257,525	32.5	6,935,136	36.0	44.4	12,334,204	64.0	24.4
‡ Jersey – Channel Islands	31,497 [117]	59.8	n.a.	—	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Liechtenstein	10,038	50.1	9,979	49.9	9,848	49.2	269.5	10,169	50.8	37.9
Luxembourg [103]	n.r.	n.r.	n.r.	—	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Malta	53,669	64.9	29,066 [160, 161]	35.1	—	—	—	—	—	—
Monaco [782]	n.r.	n.r.	n.r.	—	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Netherlands	5,039,000	69.7	2,191,000 [507, 508]	30.3	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Norway	1,085,415	58.6	766,268	41.4	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Poland	1,865,269	55.1	1,522,127	44.9	2,117,841	62.5	35.4	1,269,555	37.5	0.0
Portugal	989,470	72.1	382,261	27.9	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Romania [169]	n.r.	n.r.	n.r.	—	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
‡ San Marino	—	—	—	—	—	—	—	—	—	—
Spain	6,871,519	58.0	4,973,104	42.0	4,413,949	37.3	34.6	7,430,674	62.7	63.8
Sweden	4,400,000	66.5	2,221,000	33.5	2,022,000	30.5	65.1	4,599,000	69.5	12.4
Switzerland	2,839,461	61.6	1,772,921	38.4	2,188,834	47.5	208.4	2,432,548	52.7	13.8
United Kingdom [325]	18,542,989	66.7	—	—	—	—	—	—	—	—
Yugoslavia	1,556,274	73.0	576,951	27.0	981,015	46.0	—	1,152,210	54.0	—
Total – World Zone 3 & 4	**108,939,500**		**46,168,185**		**23,839,734**			**33,540,878**		
World Zone 5										
Argentina	2,023,432	70.2	857,322	29.8	1,255,854	43.6	31.9	1,624,900	56.4	10.2
Belize	3,847	61.6	2,403	38.4	2,982	47.7	n.a.	3,268	52.3	n.a.
Bolivia	135,100	100.0	—	—	—	—	—	—	—	—
Brazil	4,703,305	62.7	4,792,949	63.9	3,673,040	49.0	41.2	3,822,960	51.0	14.6
Chile	363,039	63.7	206,930	36.3	273,067	47.9	48.6	296,902	52.1	20.8
Colombia	1,322,285	81.5	300,820	18.5	503,163	31.0	0.0	1,119,942	69.0	9.8
Costa Rica	151,061	64.0	85,071	36.0	60,852	25.8	50.0	175,280	74.2	50.0
Cuba [210]	n.r.	n.r.	n.r.	—	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Ecuador	n.r.	n.r.	n.r.	—	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
El Salvador	65,661	86.5	—	—	23,930*	31.5*	—	51,990*	68.5*	—
‡ Falkland Islands [340]	n.r.	n.r.	n.r.	—	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
French Guiana	11,227	61.9	6,907 [833]	38.1	—	—	—	—	—	—
Guadeloupe	34,508	68.7	15,699 [837]	31.3	—	—	—	—	—	—
Guatemala	80,143 [230]	98.2	1,479 [229]	1.8	27,207	33.3	—	54,415	66.7	—
Guyana [449]	n.r.	n.r.	n.r.	—	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Haiti [626]	n.r.	n.r.	n.r.	—	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Honduras	n.r.	n.r.	n.r.	—	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.

AREA	MAIN NUMBER	MAIN % OF TOTAL	EXT. & P. B. X. NUMBER	EXT. & P. B. X. % OF TOTAL	BUSINESS NUMBER	BUSINESS % OF TOTAL	BUSINESS EXTENSION AS % OF MAIN BUS.	RESIDENCE NUMBER	RESIDENCE % OF TOTAL	RESIDENCE EXTENSION AS % OF MAIN RES.
World Zone 5 (Continued)										
Martinique	40,816	63.6	23,338[829]	36.4	–	–	–	–	–	–
Mexico	2,661,313[265]	52.4	2,419,492[266]	47.6	2,003,263[269]	39.4	72.0	3,079,455[268]	60.6	59.0[272]
Netherlands Antilles[553]	n.r.	n.r.	n.r.	–	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Nicaragua[723]	n.r.	n.r.	n.r.	–	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Panama	145,194	75.7	46,719	24.3	59,555	31.0	17.4	132,358	69.0	14.6
Paraguay	49,678	84.6	9,035	15.4	25,076	42.7	24.1	33,637	57.3	1.7
Peru	292,011[242]	59.9	195,112[594 595]	40.1	216,925[597]	44.5	45.6[601 599]	270,198[596]	55.5	23.2[600 598]
Suriname[745]	n.r.	n.r.	n.r.	–	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Uruguay	220,182	76.7	66,958[284]	23.3	–	–	–	–	–	–
Venezuela[183]	n.a.	n.a.	n.a.	–	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total – World Zone 5	**12,302,802**		**9,030,234**		**8,124,914**			**10,665,305**		
World Zone 6										
American Samoa	3,530	67.8	1,680	32.2	2,120	40.9	27.4	3,080	59.1	8.4
Australia[813]	5,069,342	66.0	2,053,340	26.7	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
‡ Banaba (Ocean) Island[342]	0	0.0	0	–	0	0.0	0.0	0	0.0	0.0
Brunei	11,107	61.9	6,823[293]	38.1	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
‡ Cocos (Keeling) Island	0	0.0	142	100.0	74	52.1	0.0	68	47.9	0.0
Cook Islands[526]	n.r.	n.r.	n.r.	–	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Fiji	23,381	51.6	21,942	48.4	–	–	–	–	–	–
French Polynesia	11,407	50.6	11,116	49.4	–	–	–	–	–	–
Guam, Mariana Islands	19,415	69.4	8,567	30.6	9,621	34.4	62.5	18,361	65.6	16.0
Indonesia[536]	n.r.	n.r.	n.r.	–	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Kiribati (Gilbert Islands)[351]	571	78.9	153	21.1	514	71.0	0.0	210	29.0	0.0
‡ Kiritimati (Christmas Islands)[399]	382	82.9	79	17.1	298	64.6	26.5	163	35.4	2.5
‡ Kwajalein	3,860	66.7	1,930	33.3	4,590	79.3	–	1,200	20.7	–
Malaysia	394,423	66.1	202,549	33.9	352,765	59.1	108.6	244,207	40.9	7.0
‡ Midway Islands[540]	n.r.	n.r.	n.r.	–	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Nauru[543]	n.a.	n.a.	n.a.	–	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
New Caledonia[318]	14,807	53.0	13,146	47.0	–	–	–	–	–	–
New Zealand	1,136,522	63.2	662,280	36.8	881,667	49.0	–	917,135	51.0	–
Niue[559]	n.a.	n.a.	n.a.	–	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
‡ Norfolk Island	554	67.1	272	32.9	297	36.0	49.1	529	64.0	14.7
‡ Northern Marianas[188]	1,606	71.1	652	28.9	1,336	59.2	47.4	922	40.8	15.2
‡ Palau (Micronesia)[493]	830	79.2	218	20.8	588	56.1	47.5	460	43.9	6.7
Papua New Guinea	25,422	51.5	23,908	48.5	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Philippines[502]	314,524	58.5	223,271	41.5	297,476	55.3	83.8	240,319	44.7	22.6
‡ Pitcairn Island	25	100.0	–	–	9	36.0	0.0	16	64.0	0.0
Singapore	499,205	71.1	203,014	28.9	296,413	42.2	36.3	405,806	57.8	4.6
Solomon Islands	1,183	47.8	1,291	52.2	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Thailand	349,325	70.3	147,233	29.7	305,956	61.6	3.7	190,602	38.4	6.3
‡ Tokelau Islands[425]	0	0.0	0	–	0	0.0	0.0	0	0.0	0.0
Tonga	1,176	53.6	1,020	46.4	1,189	54.1	51.5	1,007	45.9	6.1
Tuvalu[401]	0	0.0	0	–	0	0.0	0.0	0	0.0	0.0
Vanuatu (New Hebrides)	1,700	56.7	1,300	43.3	–	–	–	–	–	–
‡ Wake Island[406]	n.r.	n.r.	n.r.	–	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Wallis and Futuna Islands[562]	n.r.	n.r.	n.r.	–	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Western Samoa	3,979	67.2	1,939	32.8	2,687	45.4	9.4	3,231	54.6	8.5
Total – World Zone 6	**7,888,276**		**3,587,865**		**2,157,610**			**2,027,316**		
World Zone 7										
USSR (Soviet Union)	20,148,000	85.0	3,559,000	15.0	–	–	–	–	–	–
Total – World Zone 7	**20,148,000**		**3,559,000**		–			–		
World Zone 8										
Bangladesh[755]	n.r.	n.r.	n.r.	–	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
China – Mainland[503]	n.r.	n.r.	n.r.	–	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
China – Taiwan	2,160,494	68.2	1,005,675	31.8	1,392,686	44.0	28.8	1,773,483	56.0	17.4
Hong Kong	1,278,866[378]	76.3	397,432	23.7	602,800	36.0	94.4	1,073,498	64.0	10.8
Japan[476]	41,335,154[383]	71.3	16,672,255	28.7	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Kampuchea[387]	n.r.	n.r.	n.r.	–	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
‡ Korea, Dem. Peo. Rep.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Korea, Rep. of	2,762,095	81.6	624,705	18.4	1,653,400	48.8	n.a.	1,733,400	51.2	n.a.
Laos[392]	n.r.	n.r.	n.r.	–	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Macao	14,364	100.0	– 667	–	– 667	–	– 667	– 66	–	– 667
Vietnam[400]	n.r.	n.r.	n.r.	–	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Total – World Zone 8	**47,560,973**		**18,700,067**		**3,648,886**			**4,580,381**		

Table 6: (continued)
Main and Extension Telephones
Reported data as of January 1, 1981

AREA	MAIN NUMBER	MAIN % OF TOTAL	EXT. & P. B. X. NUMBER	EXT. & P. B. X. % OF TOTAL	BUSINESS NUMBER	BUSINESS % OF TOTAL	BUSINESS EXTENSION AS % OF MAIN BUS.	RESIDENCE NUMBER	RESIDENCE % OF TOTAL	RESIDENCE EXTENSION AS % OF MAIN RES.
World Zone 9										
Afghanistan[435]	n.r.	n.r.	n.r.	–	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Bahrain	n.a.	n.a.	n.a.	–	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Bhutan[530]	n.r.	n.r.	n.r.	–	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Burma[878]	n.r.	n.r.	n.r.	–	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
India[439]	2,104,272	75.6	680,824	24.4	–	–	–	–	–	–
Iran	–	–	–	–	–	–	–	–	–	–
Iraq[433]	n.r.	n.r.	n.r.	–	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Israel	n.a.	n.a.	n.a.	–	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Jordan[454]	n.r.	n.r.	n.r.	–	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Kuwait	157,486	73.3	57,277	26.7	71,588	33.3	23.0	143,175	66.7	2.1
Lebanon[455]	n.r.	n.r.	n.r.	–	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Maldives	1,061	100.0	1	0.1	507	47.8	–	554	52.2	–
Mongolia[456]	n.r.	n.r.	n.r.	–	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Nepal[445]	n.r.	n.r.	n.r.	–	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Oman[465]	n.r.	n.r.	n.r.	–	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Pakistan	344,420[461]	93.8	22,660[462]	6.2	–	–	–	–	–	–
Qatar	n.a.	n.a.	n.a.	–	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Saudi Arabia	407,114	92.0	35,400*	8.0*	115,030*	26.0*	22.6*	327,484*	74.0*	4.5*
Sri Lanka	60,930	73.0	22,570	27.0	–	–	–	–	–	–
Syria[477]	n.r.	n.r.	n.r.	–	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Turkey	1,147,782	60.3	754,299	39.7	1,080,354	56.8	34.5	821,727	43.2	25.4
United Arab Emirates	109,495	52.4	99,401	47.6	121,185	58.0	48.1	87,711	42.0	17.5
Yemen (Aden)[517]	n.r.	n.r.	n.r.	–	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Yemen (Sanaa)	n.r.	n.r.	n.r.	–	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Total – World Zone 9	**4,322,560**		**1,672,432**		**1,388,664**			**11,380,651**		
TOTAL (ALL WORLD ZONES)	**312,194,273**		**185,320,493**		**99,786,157**			**204,000,845**		

Table 7:
Private Branch Exchange (PBX) Telephones
Reported data are as of January 1, 1981.

AREA	TOTAL PBX & ASSOCIATED EXTENSION TELEPHONES		BUSINESS		RESIDENCE	
	NUMBER	% OF TOTAL TELS.	NUMBER	% OF TOTAL PBX & ASSOC. EXTNS.	NUMBER	% OF TOTAL PBX & ASSOC. EXTNS.
World Zone 1						
Anguilla [224]	n.r.	–	n.r.	n.r.	n.r.	n.r.
Antigua [226]	n.r.	–	n.r.	n.r.	n.r.	n.r.
Bahamas	16,379	22.8	16,379	100.0	0	0.0
Barbados	10,308	15.5	10,308	100.0	0	0.0
Bermuda	16,209	35.0	16,209	100.0	0	0.0
Canada [884]	988,497*	6.1	988,468*	100.0*	29*	<0.1*
Cayman Islands [511]	n.r.	–	n.r.	n.r.	n.r.	n.r.
Dominica [512]	n.r.	–	n.r.	n.r.	n.r.	n.r.
Dominican Republic	31,553	19.1	31,553	100.0	–	–
Grenada [14]	1,111	19.7	1,111	100.0	0	0.0
Jamaica	48,801	40.9	48,801	100.0	0	0.0
Montserrat	n.a.	–	26	n.a.	–	–
Puerto Rico	106,625	16.9	106,625	100.0	0	0.0
St. Kitts Nevis [224]	n.r.	–	n.r.	n.r.	n.r.	n.r.
St. Lucia [852]	n.r. [852]	–	n.r.	n.r.	n.r.	n.r.
St. Pierre and Miquelon	–	–	–	–	–	–
St. Vincent [860]	n.r.	– [864]	n.r.	n.r.	n.r.	n.r.
Trinidad and Tobago [865]	n.r.	– [865]	n.r.	n.r.	n.r.	n.r.
Turks and Caicos Islands	–	–	–	–	–	–
United States [232]	25,252,000	13.2 [802]	25,223,000	99.9	29,000	0.1
Virgin Islands	5,470	13.3	5,470	100.0	0	0.0
Virgin Islands, British [851]	n.r.	– [851]	n.r.	n.r.	n.r.	n.r.
Total – World Zone 1	**26,476,953**		**26,447,950**		**29,029**	
World Zone 2						
Algeria	–	–	–	–	–	–
Angola [401]	n.r.	–	n.r.	n.r.	n.r.	n.r.
Ascension Island [19]	n.r.	–	n.r.	n.r.	n.r.	n.r.
Benin [427]	n.r.	–	n.r.	n.r.	n.r.	n.r.
Botswana [034]	n.r.	–	n.r.	n.r.	n.r.	n.r.
Burundi [457]	n.r.	–	n.r.	n.r.	n.r.	n.r.
Cameroon [470]	n.r.	–	n.r.	n.r.	n.r.	n.r.
Cape Verde	100	5.8	100	100.0	0	0.0
Central African Republic [490]	n.r.	–	n.r.	n.r.	n.r.	n.r.
Chad [439]	n.r.	–	n.r.	n.r.	n.r.	n.r.
Comoros [669]	n.r.	–	n.r.	n.r.	n.r.	n.r.
Congo [462]	n.r.	–	n.r.	n.r.	n.r.	n.r.
Djibouti [411]	n.r.	–	n.r.	n.r.	n.r.	n.r.
Egypt	–	–	–	–	–	–
Equatorial Guinea	n.r.	–	n.r.	n.r.	n.r.	n.r.
Ethiopia	–	–	–	–	–	–
Gabon	–	–	–	–	–	–
Gambia [86]	n.r.	–	n.r.	n.r.	n.r.	n.r.
Ghana [429]	n.r.	–	n.r.	n.r.	n.r.	n.r.
Guinea Bissau [44]	n.r.	–	n.r.	n.r.	n.r.	n.r.
Guinea, Rep. of [472]	n.r.	–	n.r.	n.r.	n.r.	n.r.
Ivory Coast [424]	n.r.	–	n.r.	n.r.	n.r.	n.r.
Kenya	n.a.	–	n.a.	n.a.	n.a.	n.a.
Lesotho [822]	n.r.	–	n.r.	n.r.	n.r.	n.r.
Liberia [430]	n.r.	–	n.r.	n.r.	n.r.	n.r.
Libya	n.r.	–	n.r.	n.r.	n.r.	n.r.
Malagasy (Madagascar) [222]	n.r.	–	n.r.	n.r.	n.r.	n.r.
Malawi	2,944	19.5	2,944	100.0	0	0.0
Mali [123]	n.r.	–	n.r.	n.r.	n.r.	n.r.
Mauritania [814]	n.r.	–	n.r.	n.r.	n.r.	n.r.
Mauritius	9,855*	26.1	9,855*	100.0*	0*	0.0
Morocco [870]	n.r.	–	n.r.	n.r.	n.r.	n.r.
Mozambique [821]	n.r.	–	n.r.	n.r.	n.r.	n.r.
Namibia (South West Africa)	20,532	37.8	20,532 [56]	100.0	0	0.0
Niger [840]	n.r.	–	n.r.	n.r.	n.r.	n.r.
Nigeria [843]	n.r.	–	n.r.	n.r.	n.r.	n.r.
Reunion	–	–	–	–	–	–
Rwanda [847]	n.r.	–	n.r.	n.r.	n.r.	n.r.
Saint Helena [71]	n.r.	–	n.r.	n.r.	n.r.	n.r.
Sao Tome and Principe [803]	n.r.	–	n.r.	n.r.	n.r.	n.r.
Senegal [815]	n.r.	–	n.r.	n.r.	n.r.	n.r.
Seychelles	–	–	–	–	–	–
Sierra Leone [879]	n.r.	–	n.r.	n.r.	n.r.	n.r.
Somalia [706]	n.r.	–	n.r.	n.r.	n.r.	n.r.
South Africa	1,244,799 [86]	42.4	1,244,799	100.0	0	0.0
Bophuthatswana [514]	841	7.7	706	83.9	135	16.1
Ciskei [515]	n.r.	–	n.r.	n.r.	n.r.	n.r.
Transkei [514]	n.r.	–	n.r.	n.r.	n.r.	n.r.
Venda [514]	n.r.	–	n.r.	n.r.	n.r.	n.r.

Table 7: (continued)
Private Branch Exchange (PBX) Telephones
Reported data as of January 1, 1981

AREA	TOTAL PBX & ASSOCIATED EXTENSION TELEPHONES		BUSINESS		RESIDENCE	
	NUMBER	% OF TOTAL TELS.	NUMBER	% OF TOTAL PBX & ASSOC. EXTNS.	NUMBER	% OF TOTAL PBX & ASSOC. EXTNS.
World Zone 2 (Continued)						
Sudan	12,464	19.2	–	–	12,464	100.0
Swaziland	1,201*	10.0	1,201	100.0*	0*	0.0
Tanzania	–	–	–	–	–	–
Togo	75	1.0	–	–	–	–
Tunisia	–	–	–	–	–	–
Uganda [707]	n.r.	–	n.r.	n.r.	n.r.	n.r.
Upper Volta [881]	n.r.	–	n.r.	n.r.	n.r.	n.r.
Zaire [882]	n.r.	–	n.r.	n.r.	n.r.	n.r.
Zambia [883]	n.r.	–	n.r.	n.r.	n.r.	n.r.
Zimbabwe (Rhodesia)	120,433	53.7	120,433	100.0	0	0.0
Total – World Zone 2	**1,413,244**		**1,400,570**		**12,599**	
World Zone 3 & 4						
Albania [102]	n.r.	–	n.r.	n.r.	n.r.	n.r.
Andorra	4,830	30.6	4,830	100.0	0	0.0
Austria	–	–	–	–	–	–
Belgium	921,724	25.4	– [550]	–	– [550]	–
Bulgaria	292,831	23.3	292,831	100.0	0	0.0
Cyprus	27,432	24.2	27,432	100.0	0	0.0
Czechoslovakia	241,594	7.7	241,594	100.0	–	0.0
Denmark [165]	–	–	–	–	–	–
Finland	603,871	25.4	–	–	–	–
France	3,941,223	16.0	n.a.	n.a.	n.a.	n.a.
(5) French Guiana [244]	–	–	–	–	–	–
(6) French Polynesia [244]	9,695	43.0	–	–	–	–
(5) Guadeloupe [244]	–	–	–	–	–	–
(5) Martinique [244]	–	–	–	–	–	–
(6) New Caledonia [244,318]	8,233	29.5	–	–	–	–
(2) Reunion [244]	–	–	–	–	–	–
(1) St. Pierre and Miquelon [244]	–	–	–	–	–	–
(6) Wallis and Futuna Islands [244]	n.r.	–	n.r.	n.r.	n.r.	n.r.
German Dem. Rep.	1,658,587	52.5	– [195]	–	–	–
Germany, Fed. Rep. [81]	– [195]	–	–	– [196]	– [196]	– [195]
Gibraltar	1,632	17.4	–	–	–	–
Greece	296,238	10.6	–	–	–	–
Guernsey-Channel Islands	6,936	18.7	n.a.	n.a.	n.a.	n.a.
Hungary	576,259	45.7	576,259	100.0	0	0.0
Iceland	578	0.5	n.a.	n.a.	n.a.	n.a.
Ireland	8,401	1.3	–	–	–	–
Italy	2,463,618	12.8	2,463,618	100.0	0	0.0
Jersey-Channel Islands	n.a.	–	n.a.	n.a.	n.a.	n.a.
Liechtenstein	–	–	–	–	–	–
Luxembourg [103]	n.r.	–	n.r.	n.r.	n.r.	n.r.
Malta	– [161]	–	–	– [161]	–	– [161]
Monaco [782]	n.r.	–	n.r.	n.r.	n.r.	n.r.
Netherlands	1,540,000 [508]	21.3	n.a.	n.a. [508]	n.a.	n.a. [508]
Norway	581,291	31.4	n.a.	n.a.	n.a.	n.a.
Poland	1,311,540	38.7	1,311,540	100.0	0	0.0
Portugal	n.a.	–	n.a.	n.a.	n.a.	n.a.
Romania [169]	n.r.	–	n.r.	n.r.	n.r.	n.r.
San Marino	–	–	–	–	–	–
Spain	1,269,648	10.7	1,269,648	100.0	0	0.0
Sweden	1,466,000	22.1	1,466,000	100.0	0	0.0
Switzerland	–	–	–	–	–	–
United Kingdom [325]	–	–	–	–	–	–
Yugoslavia	576,951	27.1	576,951	100.0	0	0.0
Total – World Zone 3 & 4	**17,791,184**		**8,230,703**		**0**	
World Zone 5						
Argentina	530,265	18.4	529,773	99.9	532	0.1
Belize	51	0.8	25	49.0	26	51.0
Bolivia	–	–	–	–	–	–
Brazil	1,492,265	19.9	1,477,342	99.0	14,923	1.0
Chile	98,751	17.3	98,751	100.0	0	0.0
Colombia	211,566	13.0	211,566	100.0	0	0.0
Costa Rica	9,540	4.0	9,540	100.0	–	–
Cuba [210]	n.r.	–	n.r.	n.r.	n.r.	n.r.
Equador [417]	n.r.	–	n.r.	n.r.	n.r.	n.r.
El Salvador	–	–	–	–	–	–
Falkland Islands [340]	n.r.	–	n.r.	n.r.	n.r.	n.r.
French Guiana	–	–	–	–	–	–
Guadeloupe	–	–	–	–	–	–
Guatemala	1,479 [229]	1.8	1,479 [231]	100.0	0	0.0
Guyana [449]	n.r.	–	n.r.	n.r.	n.r.	n.r.

AREA	TOTAL PBX & ASSOCIATED EXTENSION TELEPHONES		BUSINESS		RESIDENCE	
	NUMBER	% OF TOTAL TELS.	NUMBER	% OF TOTAL PBX & ASSOC. EXTNS.	NUMBER	% OF TOTAL PBX & ASSOC. EXTNS.
World Zone 5 (Continued)						
Haiti [626]	n.r.	–	n.r.	n.r.	n.r.	n.r.
Honduras	n.r.	–	n.r.	n.r.	n.r.	n.r.
Martinique	–	–	–	–	–	–
Mexico	755,817	14.9	755,817	100.0	0	0.0
Netherlands Antilles [553]	n.r.	–	n.r.	n.r.	n.r.	n.r.
Nicaragua [723]	n.r.	–	n.r.	n.r.	n.r.	n.r.
Panama	24,719	12.9	24,719	100.0	–	–
Paraguay	3,879	6.6	3,879	100.0	0	0.0
Peru	109,365 [595]	22.5	91,154 [775]	83.3	380 [775]	0.3
Suriname [745]	n.r.	–	n.r.	n.r.	n.r.	n.r.
Uruguay	–	–	–	–	–	–
Venezuela [183]	n.a.	–	n.a.	n.a.	n.a.	n.a.
Total – World Zone 5	**3,237,697**		**3,204,045**		**15,861**	
World Zone 6						
American Samoa	1,190	22.8	1,190	100.0	0	0.0
Australia [813]	2,053,340	26.7	n.a.	n.a.	n.a.	n.a.
‡ Banaba (Ocean) Island	0	–	0	0.0	0	0.0
Brunei	6,823	38.1	n.a.	n.a.	n.a.	n.a.
‡ Cocos (Keeling) Island [342]	142	100.0	74	52.1	68	47.9
Cook Islands [526]	n.r.	–	n.r.	n.r.	n.r.	n.r.
Fiji	16,980	37.5	–	–	–	–
French Polynesia	9,695	43.0	–	–	–	–
Guam, Mariana Islands	3,803	13.6	3,803	100.0	0	0.0
Indonesia [536]	n.r.	–	n.r.	n.r.	n.r.	n.r.
Kiribati (Gilbert Islands) [351]	153	21.1	–	–	–	–
‡ Kiritimati (Christmas Island) [399]	16	3.5	16	100.0	–	–
‡ Kwajalein	1,930	33.3	1,730	89.6	200	10.4
Malaysia	5,947	1.0	5,947	100.0	0	0.0
‡ Midway Islands [540]	n.r.	–	n.r.	n.r.	n.r.	n.r.
Nauru [543]	n.a.	–	n.a.	n.a.	n.a.	n.a.
New Caledonia [318]	8,233	29.5	–	–	–	–
New Zealand	339,647	18.9	–	–	–	–
Niue [559]	n.a.	–	n.a.	n.a.	n.a.	n.a.
‡ Norfolk Island	115	13.9	115	100.0	–	–
‡ Northern Marianas [188]	148	6.6	148	100.0	–	–
‡ Palau (Micronesia) [493]	–	–	1	–	0	0.0
Papua New Guinea	23,908	48.5	n.a.	n.a.	n.a.	n.a.
Philippines [502]	79,410	14.8	79,177*	99.7	233*	0.3
‡ Pitcairn Island	–	–	0	0.0	0	0.0
Singapore	144,343	20.6	142,657	98.8	1,686	1.2
Solomon Islands	963	38.9	963	100.0	0	0.0
Thailand	129,647	26.1	128,151	98.8	1,496	1.2
‡ Tokelau Islands [425]	0	–	0	0.0	0	0.0
Tonga	845	38.5	845	100.0	0	0.0
Tuvalu [401]	0	–	0	0.0	0	0.0
Vanuatu (New Hebrides)	1,000	33.3	–	–	–	–
‡ Wake Island [406]	n.r.	–	n.r.	n.r.	n.r.	n.r.
Wallis and Futuna Islands [562]	n.r.	–	n.r.	n.r.	n.r.	n.r.
Western Samoa	1 593	26.9	1,592	99.9	1	0.1
Total – World Zone 6	**2,829,871**		**366,409**		**3,684**	
World Zone 7						
USSR (Soviet Union)	–	–	–	–	–	–
Total – World Zone 7	–	–	–	–	–	–
World Zone 8						
Bangladesh [755]	n.r.	–	n.r.	n.r.	n.r.	n.r.
China - Mainland [503]	n.r.	–	n.r.	n.r.	n.r.	n.r.
China - Taiwan	555,851	17.6	–	–	–	–
Hong Kong	–	–	–	–	–	–
Japan [476]	5,604,043	9.7	5,604,043	100.0	0	0.0
Kampuchea [387]	n.r.	–	n.r.	n.r.	n.r.	n.r.
‡ Korea, Dem. Peo. Rep.	n.r.	–	n.r.	n.r.	n.r.	n.r.
Korea, Rep. of	288,173	8.5	n.a.	n.a.	n.a.	n.a.
Laos [392]	n.r.	–	n.r.	n.r.	n.r.	n.r.
Macao	– [666]	–	– [666]	– [666]	– [666]	– [666]
Vietnam [400]	n.r.	–	n.r.	n.r.	n.r.	n.r.
Total – World Zone 8	**6,448,067**		**5,604,043**		**0**	

Table 7: (continued)
Private Branch Exchange (PBX) Telephones
Reported data as of January 1, 1981

AREA	TOTAL PBX & ASSOCIATED EXTENSION TELEPHONES		BUSINESS		RESIDENCE	
	NUMBER	% OF TOTAL TELS.	NUMBER	% OF TOTAL PBX & ASSOC. EXTNS.	NUMBER	% OF TOTAL PBX & ASSOC. EXTNS.
World Zone 9						
Afghanistan [405]	n.r.	–	n.r.	n.r.	n.r.	n.r.
Bahrain	n.a.	–	n.a.	n.a.	n.a.	n.a.
Bhutan [520]	n.r.	–	n.r.	n.r.	n.r.	n.r.
Burma [678]	n.r.	–	n.r.	n.r.	n.r.	n.r.
India [439]	382,656	13.7	–	–	–	–
Iran	–	–	–	–	–	–
Iraq [433]	n.r.	–	n.r.	n.r.	n.r.	n.r.
Israel	n.a.	–	n.a.	n.a.	n.a.	n.a.
Jordan [404]	n.r.	–	n.r.	n.r.	n.a.	n.a.
Kuwait	43,000	20.0	43,000	100.0	0	0.0
Lebanon [450]	n.r.	–	n.r.	n.r.	n.r.	n.r.
Maldives	1	<0.1	–	–	1	100.0
Mongolia [456]	n.r.	–	n.r.	n.r.	n.r.	n.r.
Nepal [445]	n.r.	–	n.r.	n.r.	n.r.	n.r.
Oman [465]	n.r.	–	n.r.	n.r.	n.r.	n.r.
Pakistan	–	–	–	–	–	–
Qatar	n.a.	–	n.a.	n.a.	n.a.	n.a.
Saudi Arabia	n.a.	–	n.a.	n.a.	n.a.	n.a.
Sri Lanka	14,527	17.4	–	–	–	–
Syria [477]	n.r.	–	n.r.	n.r.	n.r.	n.r.
Turkey	413,075	21.7	350,627	84.9	62,448	15.1
United Arab Emirates	69,564	33.3	69,564	100.0	–	–
Yemen (Aden) [617]	n.r.	–	n.r.	n.r.	n.r.	n.r.
Yemen (Sanaa)	n.r.	–	n.r.	n.r.	n.r.	n.r.
Total – World Zone 9	**922,823**		**463,191**		**62,449**	
TOTAL (ALL WORLD ZONES)	**59,119,839**		**45,716,911**		**123,621**	

Table 8:
Coin Box and Public Telephone Stations
Reported data are as of January 1, 1981

AREA	NBR. CAPABLE OF ORIG. INT'L. CALLS		TOTAL	
	COIN BOX TELS.	PUBLIC TEL. STNS.	COIN BOX TELS.	PUBLIC TEL. STNS.
World Zone 1				
Anguilla [224]	n.r.	n.r.	n.r.	n.r.
Antigua [226]	n.r.	n.r.	n.r.	n.r.
Bahamas	–	181	123	181
Barbados	199	–	199	–
Bermuda	584 [7]	– [7]	584 [9]	– [10]
Canada [884]	36,220	15,020	108,235	17,432
Cayman Islands [537]	n.r.	n.r.	n.r.	n.r.
‡Dominica [532]	n.r.	n.r.	n.r.	n.r.
Dominican Republic	–	740	–	740
Grenada [14]	–	–	13	–
Jamaica	629	607	629	607
Montserrat, West Indies	20	–	20	–
Puerto Rico	–	32	5,944	–
St. Kitts-Nevis [224]	n.r.	n.r.	n.r.	n.r. [859]
St. Lucia [352]	n.r.	n.r.	n.r.	n.r. [855]
St. Pierre and Miquelon	–	–	–	28
St. Vincent [860]	n.r.	n.r.	n.r.	n.r. [864]
‡Trinidad and Tobago [865]	n.r.	n.r.	n.r.	n.r.
‡Turks and Caicos Islands	–	–	–	–
United States [232]	– [797]	1,075,800 *	– [797]	1,956,000 *
Virgin Islands	297	30	297	30
Virgin Islands, British [851]	n.r.	n.r.	n.r.	n.r. [851]
Total – World Zone 1	**37,949**	**1,092,410**	**116,044**	**1,975,018**
World Zone 2				
Algeria	–	–	–	–
Angola [60]	n.r.	n.r.	n.r.	n.r.
‡Ascension Island [74]	n.r.	n.r.	n.r.	n.r.
Benin [82]	n.r.	n.r.	n.r.	n.r.
Botswana [304]	n.r.	n.r.	n.r.	n.r.
Burundi [451]	n.r.	n.r.	n.r.	n.r.
Cameroon [472]	n.r.	n.r.	n.r.	n.r.
Cape Verde	–	–	–	–
Central African Republic [490]	n.r.	n.r.	n.r.	n.r.
Chad [639]	n.r.	n.r.	n.r.	n.r.
Comoros [659]	n.r.	n.r.	n.r.	n.r.
Congo [663]	n.r.	n.r.	n.r.	n.r.
Djibouti [671]	n.r.	n.r.	n.r.	n.r.
Egypt	–	–	–	–
Equatorial Guinea	n.r.	n.r.	n.r.	n.r.
Ethiopia	–	107,537	680	418
Gabon	32	20	32	20
Gambia [89]	n.r.	n.r.	n.r.	n.r.
Ghana [629]	n.r.	n.r.	n.r.	n.r.
Guinea-Bissau [44]	n.r.	n.r.	n.r.	n.r.
Guinea, Rep. Of [673]	n.r.	n.r.	n.r.	n.r.
Ivory Coast [824]	n.r.	n.r.	n.r.	n.r.
Kenya	n.a.	n.a.	1,141	573
Lesotho [822]	n.r.	n.r.	n.r.	n.r.
Liberia [820]	n.r.	n.r.	n.r.	n.r.
Libya	n.r.	n.r.	n.r.	n.r.
Malagasy (Madagascar) [222]	n.r.	n.r.	n.r.	n.r.
Malawi	n.a.	n.a.	n.a.	n.a.
Mali [323]	n.r.	n.r.	n.r.	n.r.
Mauritania [814]	n.r.	n.r.	n.r.	n.r.
Mauritius	0	0	32	0
Morocco [815]	n.r.	n.r.	n.r.	n.r.
Mozambique [827]	n.r.	n.r.	n.r.	n.r.
Namibia (South West Africa)	679 [59]	34 [59]	–	–
Niger [840]	n.r.	n.r.	n.r.	n.r.
Nigeria [843]	n.r.	n.r.	n.r.	n.r.
Reunion	–	–	–	61
Rwanda [847]	n.r.	n.r.	n.r.	n.r.
‡Saint Helena [71]	n.r.	n.r.	n.r.	n.r.
Sao Tome and Principe [803]	n.r.	n.r.	n.r.	n.r.
Senegal [816]	n.r.	n.r.	n.r.	n.r.
Seychelles	n.a.	n.a.	n.a.	n.a.
Sierre Leone [879]	n.r.	n.r.	n.r.	n.r.
Somalia [704]	n.r.	n.r.	n.r.	n.r.
South Africa	27,679 [87]	440 [87]	27,679	440
Bophuthatswana [514]	–	–	69	82
Ciskei [515]	n.r.	n.r.	n.r.	n.r.
Transkei [514]	n.r.	n.r.	n.r.	n.r.
Venda [514]	n.r.	n.r.	n.r.	n.r.
Sudan	–	585	–	585

AREA	NBR. CAPABLE OF ORIG. INT'L. CALLS		TOTAL	
	COIN BOX TELS.	PUBLIC TEL. STNS.	COIN BOX TELS.	PUBLIC TEL. STNS.
World Zone 2 (Continued)				
Swaziland	–	–	14	62
Tanzania	503	346	503	346
Togo	–	–	–	–
Tunisia	14,288	–	–	–
Uganda [707]	n.r.	n.r.	n.r.	n.r.
Upper Volta [881]	n.r.	n.r.	n.r.	n.r.
Zaire [882]	n.r.	n.r.	n.r.	n.r.
Zambia [883]	n.r.	n.r.	n.r.	n.r.
Zimbabwe (Rhodesia)	0	–	846	–
Total – World Zone 2	**43,181**	**108,962**	**30,996**	**2,587**
World Zone 3 & 4				
Albania [102]	n.r.	n.r.	n.r.	n.r.
‡Andorra	48	–	–	–
Austria	–	–	–	–
Belgium	1,051	1,246	–	–
Bulgaria	–	–	–	–
Cyprus	369	466	369	466
Czechoslovakia	906	12,855	8,223	12,855
Denmark [165]	–	–	–	26,549
Finland	–	–	–	–
France	n.a.	n.a.	109,867	148,825
(5) French Guiana [81]	–	–	–	22
(6) French Polynesia [244]	–	27 [317]	–	–
(5) Guadeloupe [244]	–	35	–	35
(5) Martinique [244]	–	52	–	52
(6) New Caledonia [318,244]	–	–	–	–
(2) Reunion [244]	–	–	–	61
(1) St. Pierre and Miquelon [244]	–	–	–	28
(6) Wallis and Futuna Islands [244]	n.r.	n.r.	n.r.	n.r.
German Dem. Rep.	11,300	18,332	14,218	18,332
Germany, Fed. Rep. [244]	42,856	32,007	123,637	32,007
Gibraltar	0	1 [140]	20	1
Greece	1,329	14,740	4,747	14,740
‡Guernsey-Channel Islands	598 [574]	73 [574]	598	73
Hungary	–	–	–	15,771
Iceland	–	n.a.	490	n.a.
Ireland	–	–	–	4,156
Italy	291,393	32,618	292,489	97,026
Jersey-Channel Islands	1,068	151	1,068	151
Liechtenstein	–	–	–	–
Luxembourg [103]	n.r.	n.r.	n.r.	n.r.
Malta	–	6	490	6
Monaco [782]	n.r.	n.r.	n.r.	n.r.
Netherlands	–	–	9,206	–
Norway	n.a.	n.a.	8,045	2,543
Poland	–	7,606	21,838	27,749
Portugal	78	151 [68]	3,287	13,598 [168]
Romania [169]	n.r.	n.r.	n.r.	n.r.
‡San Marino	–	–	–	–
Spain	35,157	45,167	39,091	49,186
Sweden	n.a.	n.a.	37,400	n.a.
Switzerland	–	–	–	–
United Kingdom [325]	300,000	77,000	300,000	77,000
Yugoslavia	1,127	3,284	5,289	3,284
Total – World Zone 3 & 4	**687,280**	**245,703**	**980,372**	**544,318**
World Zone 5				
Argentina	–	–	14,407	16,876 [209]
Belize	n.a.	n.a.	n.a.	n.a.
Bolivia	–	–	–	–
Brazil	–	–	–	52,396
Chile	–	–	1,816	6,713
Colombia	14,610	–	14,610	–
Costa Rica	1,781	549	1,781	549
Cuba [210]	n.r.	n.r.	n.r.	n.r.
Ecuador [417]	n.r.	n.r.	n.r.	n.r.
El Salvador	–	–	–	–
‡Falkland Islands [340]	n.r.	n.r.	n.r.	n.r.
French Guiana	–	–	–	22
Guadeloupe	–	35	–	35
Guatemala	783	–	783 *	–
Guyana [449]	n.r.	n.r.	n.r.	n.r.
Haiti [626]	n.r.	n.r.	n.r.	n.r.
Honduras	n.r.	n.r.	n.r.	n.r.

Table 8: (continued)
Coin Box and Public Telephone Stations
Reported data as of January 1, 1981

AREA	NBR. CAPABLE OF ORIG. INT'L. CALLS: COIN BOX TELS.	NBR. CAPABLE OF ORIG. INT'L. CALLS: PUBLIC TEL. STNS.	TOTAL: COIN BOX TELS.	TOTAL: PUBLIC TEL. STNS.
World Zone 5 (continued)				
Martinique	–	52	–	52
Mexico	3,772 [274]	24,527 [275]	3,772 [274]	24,527 [275]
Netherlands Antilles [553]	n.r.	n.r.	n.r.	n.r.
Nicaragua [723]	n.r.	n.r.	n.r.	n.r.
Panama	–	–	1,285	–
Paraguay	–	–	–	–
Peru	–	702 [604]	274 [606]	3,005 [606]
Suriname [745]	n.r.	n.r.	n.r.	n.r.
Uruguay	–	–	1,582	1,946
Venezuela [183]	n.a.	n.a.	n.a.	n.a.
Total – World Zone 5	**20,746**	**25,865**	**40,310**	**106,121**
World Zone 6				
American Samoa	8	5	8	5
Australia [813]	–	44	47,115	31,974
‡Banaba (Ocean) Island [342]	0	0	0	0
Brunei	0	4 [295]	18 [295]	4 [295]
‡Cocos (Keeling) Island	0	0	0	0
Cook Islands [526]	n.r.	n.r.	n.r.	n.r.
Fiji	–	–	329	12
French Polynesia	–	27 [317]	–	–
Guam, Mariana Islands	91	0	91	0
Indonesia [536]	n.r.	n.r.	n.r.	n.r.
Kiribati (Gilbert Islands) [351]	–	3	–	3
‡Kiritimati (Christmas Island) [399]	–	–	–	7
‡Kwajalein	0	0	0	0
Malaysia	–	–	3,968	38
‡Midway Islands [540]	n.r.	n.r.	n.r.	n.r.
Nauru [543]	n.a.	n.a.	n.a.	n.a.
New Caledonia [318]	–	–	–	–
New Zealand	0	0	3,064	5,005
Niue [559]	n.a.	n.a.	n.a.	n.a.
‡Norfolk Island	–	3	–	3
Northern Marianas [188]	3	0	3	0
‡Palau (Micronesia) [493]	–	–	–	–
Papua New Guinea	0	n.a.	127	n.a.
Philippines [502]	n.a.	n.a.	n.a.	2,387
‡Pitcairn Island	0	0	0	0
Singapore	0	0	5,636	7,883
Solomon Islands	n.a.	0	11	0
Thailand	–	–	–	–
‡Tokelau Islands [425]	0	0	0	0
Tonga	–	12	–	12
Tuvalu [401]	0	0	0	0
Vanuatu (New Hebrides)	5	3	5	3
‡Wake Island [406]	n.r.	n.r.	n.r.	n.r.
Wallis and Futuna Islands [562]	n.r.	n.r.	n.r.	n.r.
Western Samoa	27	4	42	4
Total – World Zone 6	**134**	**105**	**60,417**	**47,340**
World Zone 7				
USSR (Soviet Union)	–	–	–	–
Total – World Zone 7	–	–	–	–
World Zone 8				
Bangladesh [755]	n.r.	n.r.	n.r.	n.r.
China-Mainland [603]	n.r.	n.r.	n.r.	n.r.
China-Taiwan	0	0	47,988	–
Hong Kong	–	73	624	73
Japan [478]	996,685 [386]	n.a.	996,685 [386]	881,592 [386]
Kampuchea [387]	n.r.	n.r.	n.r.	n.r.
‡Korea, Dem. Peo. Rep.	n.r.	n.r.	n.r.	n.r.
Korea, Rep. Of	57,591	–	57,591	–
Laos [392]	n.r.	n.r.	n.r.	n.r.
Macao	0	0	11	0
Vietnam [400]	n.r.	n.r.	n.r.	n.r.
Total – World Zone 8	**1,054,276**	**73**	**1,102,899**	**881,665**
World Zone 9				
Afghanistan [405]	n.r.	n.r.	n.r.	n.r.
Bahrain	n.a.	n.a.	n.a.	n.a.
‡Bhutan [520]	n.r.	n.r.	n.r.	n.r.
Burma [878]	n.r.	n.r.	n.r.	n.r.
India [439]	–	–	–	–
Iran	–	–	5,202	–
Iraq [433]	n.r.	n.r.	n.r.	n.r.
Israel	n.a.	n.a.	7,500	–
Jordan [464]	n.r.	n.r.	n.r.	n.r.
Kuwait	–	–	240	2
Lebanon [450]	n.r.	n.r.	n.r.	n.r.
Maldives	–	4	–	4
Mongolia [466]	n.r.	n.r.	n.r.	n.r.
Nepal [445]	n.r.	n.r.	n.r.	n.r.
Oman [466]	n.r.	n.r.	n.r.	n.r.
Pakistan	–	–	–	974
Qatar	n.a.	n.a.	n.a.	n.a.
Saudi Arabia	n.a.	760	1,576	760
Sri Lanka	0	1	255	108
Syria [477]	n.r.	n.r.	n.r.	n.r.
Turkey	0	–	5,107 [432]	–
United Arab Emirates	17	62	21	62
Yemen (Aden) [617]	n.r.	n.r.	n.r.	n.r.
Yemen (Sanaa)	n.r.	n.r.	n.r.	n.r.
Total – World Zone 9	**17**	**827**	**19,901**	**1,910**
TOTAL (ALL WORLD ZONES)	**1,843,783**	**1,473,945**	**2,350,939**	**3,568,959**

Table 9:
Telephone Subscriber Lines (business and residence)
Reported data are as of January 1, 1981

AREA	SUBSCRIBER TELEPHONE LINES IN SERVICE		
	BUSINESS	RESIDENCE	TOTAL
World Zone 1			
Anguilla [224]	n.r.	n.r.	n.r.
Antigua [226]	n.r.	n.r.	n.r.
Bahamas	8,455	22,632	31,087
Barbados	8,175	36,591	44,766
Bermuda	6,732	17,620	24,352
Canada [884]	2,345,388 *	7,536,456 *	9,881,844
Cayman Islands [537]	n.r.	n.r.	n.r.
‡Dominica [532]	n.r.	n.r.	n.r.
Dominican Republic	34,776	80,758	115,534
Grenada [14]	763	2,261	3,024
Jamaica	n.a.	n.a.	n.a.
Montserrat, West Indies	298	1,325	1,623
Puerto Rico	106,522	311,325	417,847
St. Kitts-Nevis [224]	n.r.	n.r.	n.r.
St. Lucia [852]	n.r.	n.r.	n.r.
St. Pierre and Miquelon	–	–	2,056 [826]
St. Vincent [860]	n.r.	n.r.	n.r. [864]
‡Trinidad and Tobago [865]	n.r.	n.r.	n.r.
‡Turks and Caicos Islands	207 [812]	391 [812]	598 [812]
United States [232]	16,285,000	85,837,000	102,122,000
Virgin Islands	8,510	21,588	30,098
Virgin Islands, British [861]	n.r.	n.r.	n.r.
Total – World Zone 1	**18,804,826**	**93,867,947**	**112,674,829**
World Zone 2			
Algeria	–	–	312,392 [34]
Angola [60]	n.r.	n.r.	n.r.
‡Ascension Island [74]	n.r.	n.r.	n.r.
Benin [82]	n.r.	n.r.	n.r.
Botswana [304]	n.r.	n.r.	n.r.
Burundi [451]	n.r.	n.r.	n.r.
Cameroon [472]	n.r.	n.r.	n.r.
Cape Verde	493	1,007	1,500
Central African Republic [490]	n.r.	n.r.	n.r.
Chad [639]	n.r.	n.r.	n.r.
Comoros [659]	n.r.	n.r.	n.r.
Congo [663]	n.r.	n.r.	n.r.
Djibouti [671]	n.r.	n.r.	n.r.
Egypt	149,992	245,434	395,426
Equatorial Guinea	n.r.	n.r.	n.r.
Ethiopia	14,833	38,920	53,753
Gabon	2,523	6,166	8,689
Gambia [89]	n.r.	n.r.	n.r.
Ghana [629]	n.r.	n.r.	n.r.
Guinea-Bissau [44]	n.r.	n.r.	n.r.
Guinea, Rep. Of [673]	n.r.	n.r.	n.r.
Ivory Coast [824]	n.r.	n.r.	n.r.
Kenya	n.a.	n.a.	83,649 [66]
Lesotho [822]	n.r.	n.r.	n.r.
Liberia [820]	n.r.	n.r.	n.r.
Libya	n.r.	n.r.	n.r.
Malagasy (Madagascar) [222]	n.r.	n.r.	n.r.
Malawi	8,741	6,389	15,130
Mali [323]	n.r.	n.r.	n.r.
Mauritania [614]	n.r.	n.r.	n.r.
Mauritius	9,369	14,258	23,627
Morocco [815]	n.r.	n.r.	n.r.
Mozambique [827]	n.r.	n.r.	n.r.
Namibia (South West Africa)	9,900	25,715	35,615
Niger [840]	n.r.	n.r.	n.r.
Nigeria [843]	n.r.	n.r.	n.r.
Reunion	–	–	38,111 [819]
Rwanda [847]	n.r.	n.r.	n.r.
‡Saint Helena [71]	n.r.	n.r.	n.r.
Sao Tome and Principe [803]	n.r.	n.r.	n.r.
Senegal [816]	n.r.	n.r	n.r.
Seychelles	n.a.	n.a.	n.a.
Sierre Leone [879]	n.r.	n.r.	n.r.
Somalia [704]	n.r.	n.r.	n.r.
South Africa	478,085	1,292,751	1,770,836
Bophuthatswana [514]	1,406 [511]	3,352 [511]	4,758 [511]
Ciskei [515]	n.r.	n.r.	n.r.
Transkei [514]	n.r.	n.r.	n.r.
Venda [514]	n.r.	n.r.	n.r.
Sudan	30,642	14,965	45,607
Swaziland	3,067	2,148	5,215
Tanzania	–	–	–

AREA	SUBSCRIBER TELEPHONE LINES IN SERVICE		
	BUSINESS	RESIDENCE	TOTAL
World Zone 2 (Continued)			
Togo	–	–	5,942
Tunisia	–	–	112,355
Uganda [707]	n.r.	n.r.	n.r.
Upper Volta [881]	n.r.	n.r.	n.r.
Zaire [882]	n.r.	n.r.	n.r.
Zambia [883]	n.r.	n.r.	n.r.
Zimbabwe (Rhodesia)	32,639	66,269	98,908
Total – World Zone 2	**741,690**	**1,717,374**	**3,011,513**
World Zone 3 & 4			
Albania [102]	n.r.	n.r.	n.r.
‡Andorra	–	–	8,922 [101]
Austria	–	–	2,191,030 [112]
Belgium	– [550]	– [550]	2,477,705
Bulgaria	273,025 [115]	646,951 [115]	919,976 [115]
Cyprus	–	–	75,675
Czechoslovakia	526,524	783,285	1,309,809
Denmark [165]	–	–	2,249,114
Finland	–	–	1,615,591 [177]
France	n.a.	n.a.	15,498,601
(5) French Guiana [244]	–	–	11,227 [834]
(6) French Polynesia [244]	–	–	22,523 *
(5) Guadeloupe [244]	–	–	34,508 [838]
(5) Martinique [244]	–	–	40,816 [830]
(6) New Caledonia [318,244]	–	–	14,807 *
(2) Reunion [244]	–	–	38,111
(1) St. Pierre and Miquelon [244]	–	–	2,056 [826]
(6) Wallis and Futuna Islands [244]	n.r.	n.r.	n.r.
German Dem. Rep.	–	–	617,483
Germany, Fed. Rep. [61]	–	–	20,466,639
Gibraltar	1,688	4,592	6,280 [141]
Greece	670,556	1,564,631	2,235,187
‡Guernsey-Channel Islands	n.a.	n.a.	22,556 [575]
Hungary	–	–	617,243 [147]
Iceland	n.a.	n.a.	84,837
Ireland	193,000	281,000	474,000
Italy	3,097,664	8,545,305	11,642,969
‡Jersey-Channel Islands	8,665	22,832	31,497
Liechtenstein	–	–	10,038 [144]
Luxembourg [103]	n.r.	n.r.	n.r.
Malta	n.a	n.a.	53,669
Monaco [782]	n.r.	n.r.	n.r.
Netherlands	n.a.	n.a.	4,892,102
Norway	n.a.	n.a.	1,197,287
Poland	673,313	1,269,555	1,942,868
Portugal	n.a.	n.a.	988,671
Romania [169]	n.r.	n.r.	n.r.
‡San Marino	–	–	–
Spain	2,693,705	4,535,047	7,228,752
Sweden	815,000	4,005,000	4,820,000
Switzerland	–	–	2,839,461 [190]
United Kingdom [325]	–	–	17,649,000
Yugoslavia	1,511,958	0	1,511,958
Total – World Zone 3 & 4	**10,465,098**	**21,658,198**	**105,678,920**
World Zone 5			
Argentina	394,892	1,477,843	1,872,735
Belize	2,982	3,268	6,250
Bolivia	–	–	135,100 [563]
Brazil	–	–	4,678,000
Chile	129,534	244,922	374,456
Colombia	333,439	725,097	1,058,536
Costa Rica	38,065	116,853	154,918
Cuba [210]	n.r.	n.r.	n.r.
Ecuador [417]	n.r.	n.r.	n.r.
El Salvador	18,788	40,819	59,607
‡Falkland Islands [340]	n.r.	n.r.	n.r.
French Guiana	–	–	11,227 [834]
Guadeloupe	–	–	34,508 [838]
Guatemala	27,207	54,415	81,622
Guyana [449]	n.r.	n.r.	n.r.
Haiti [526]	n.r.	n.r.	n.r.
Honduras	n.r.	n.r.	n.r.
Martinique	–	–	40,816 [830]
Mexico	738,384 [277]	1,874,737 [276]	2,613,121 [278]
Netherlands Antilles [553]	n.r.	n.r.	n.r.
Nicaragua [723]	n.r.	n.r.	n.r.
Panama	30,529	96,846	127,375 [236]

Table 9: (continued)
Telephone Subscriber Lines
Reported data as of January 1, 1981

AREA	SUBSCRIBER TELEPHONE LINES IN SERVICE		
	BUSINESS	RESIDENCE	TOTAL
World Zone 5 (Continued)			
Paraguay	17,735	31,773	49,508
Peru	95,922 [608]	211,921 [607]	307,843 [609]
Suriname [745]	n.r.	n.r.	n.r.
Uruguay	46,115	161,046	207,161
Venezuela [183]	n.a.	n.a.	n.a.
Total – World Zone 5	**1,873,592**	**5,039,540**	**11,812,783**
World Zone 6			
American Samoa	1,023	2,507	3,530
Australia [813]	1,389,533	3,679,805	5,069,338
Banaba (Ocean) Island [342]	0	0	0
Brunei	n.a.	n.a.	11,107
Cocos (Keeling) Island	–	–	– [308]
Cook Islands [526]	n.r.	n.r.	n.r.
Fiji	–	–	25,778
French Polynesia	–	–	22,523 *
Guam, Mariana Islands	8,160	15,840	24,000
Indonesia [536]	n.r.	n.r.	n.r.
Kiribati (Gilbert Islands) [351]	–	–	–
Kiritimati (Christmas Island) [399]	223 [300]	159 [299]	382 [301]
Kwajalein	2,860	1,000	3,860
Malaysia	167,469	228,171	395,640
Midway Islands [540]	n.r.	n.r.	n.r.
Nauru [543]	n.a.	n.a.	n.a.
New Caledonia [318]	–	–	14,807 *
New Zealand	203,928	914,071	1,117,999
Niue [559]	n.a.	n.a.	n.a.
Norfolk Island	182	423	605
Northern Marianas [188]	882	800	1,682
Palau (Micronesia) [403]	339	139	478 [337]
Papua New Guinea	n.a.	n.a.	25,422
Philippines [502]	127,946 *	137,502 *	265,448
Pitcairn Island	1	1	2
Singapore	136,572	386,874	523,446
Solomon Islands	n.a.	n.a.	1,377
Thailand	187,788	178,106	365,894
Tokelau Islands [425]	0	0	0
Tonga	227	949	1,176
Tuvalu [401]	0	0	0
Vanuatu (New Hebrides)	–	–	1,700
Wake Island [405]	n.r.	n.r.	n.r.
Wallis and Futuna Islands [562]	n.r.	n.r.	n.r.
Western Samoa	1,593	2,979	4,572
Total – World Zone 6	**2,228,728**	**5,549,326**	**7,890,768**

AREA	SUBSCRIBER TELEPHONE LINES IN SERVICE		
	BUSINESS	RESIDENCE	TOTAL
World Zone 7			
USSR (Soviet Union)	–	–	20,148,000 [388]
Total – World Zone 7	**–**	**–**	**20,148,000**
World Zone 8			
Bangladesh [755]	n.r.	n.r.	n.r.
China-Mainland [503]	n.r.	n.r.	n.r.
China-Taiwan	772,392	1,508,289	2,280,681
Hong Kong	310,100	968,766	1,278,866
Japan [676]	12,649,942 [386]	26,402,318 [386]	39,052,260 [386]
Kampuchea [387]	n.r.	n.r.	n.r.
Korea, Dem. Peo. Rep.	n.r.	n.r.	n.r.
Korea, Rep. Of	971,104	1,733,400	2,704,504
Laos [392]	n.r.	n.r.	n.r.
Macao	6,177	8,187	14,364
Vietnam [400]	n.r.	n.r.	n.r.
Total – World Zone 8	**14,709,715**	**30,620,960**	**45,330,675**
World Zone 9			
Afghanistan [405]	n.r.	n.r.	n.r.
Bahrain	n.a.	n.a.	n.a.
Bhutan [520]	n.r.	n.r.	n.r.
Burma [678]	n.r.	n.r.	n.r.
India [439]	–	–	2,104,272 [446]
Iran	–	–	–
Iraq [433]	n.r.	n.r.	n.r.
Israel	n.a.	n.a.	n.a.
Jordan [454]	n.r.	n.r.	n.r.
Kuwait	52,495	104,991	157,486
Lebanon [450]	n.r.	n.r.	n.r.
Maldives	507 [424]	554 [424]	1,061 [424]
Mongolia [456]	n.r.	n.r.	n.r.
Nepal [445]	n.r.	n.r.	n.r.
Oman [465]	n.r.	n.r.	n.r.
Pakistan	–	–	259,230 [464]
Qatar	n.a.	n.a.	n.a.
Saudi Arabia	93,790	313,324	407,114
Sri Lanka	–	–	60,625
Syria [477]	n.r.	n.r.	n.r.
Turkey	542,397	605,385	1,147,782
United Arab Emirates	45,962	74,629	120,591
Yemen (Aden) [517]	n.r.	n.r.	n.r.
Yemen (Sanaa)	n.r.	n.r.	n.r.
Total – World Zone 9	**735,151**	**1,098,883**	**4,258,181**
TOTAL (ALL WORLD ZONES)	**40,558,708**	**159,552,228**	**310,796,647**

Table 10:
Demographic Characteristics
Reported data are as of January 1, 1981

AREA	TOTAL TELEPHONES	AREA Km²	TOTAL POPULATION (000)	HOUSEHOLDS NUMBER	HOUSEHOLDS AVG. NBR. OF PERSONS	EMPLOYEES NUMBER TOTAL	EMPLOYEES NUMBER MANAGEMENT	EMPLOYEES NUMBER TECHNICAL	EMPLOYEES PER 1000 POP.
World Zone 1									
Anguilla [724]	n.r.	389 [780]	6.5 [781]	1,440 * [1]	4.5 [781]	n.r.	n.r.	n.r.	n.r.
Antigua [726]	n.r.	443 [2]	74.0 [2]	16,000 [1]	4.6 [1]	n.r.	n.r.	n.r.	n.r.
Bahamas	71,883	13,935	209.0 [29]	484 [29]	4.3 [29]	1,104	100	348	5.3
Barbados	66,679	431	250.5	78,000 *	4.0	654	102	302	2.6
Bermuda	46,290	53	54.7 [4]	18,449 [4]	3.0	444	86	188	8.1
Canada [884]	16,178,158	9,922,330	24,105.2	7,532,863 *	3.2	103,065	25,686	65,583	4.3
Cayman Islands [537]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
‡ Dominica [532]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Dominican Republic	165,253	48,442 [2]	5,798.8	1,159,764 [1]	5.0 [1]	1,887	452	385	0.3
Grenada [14]	5,648	344 [2]	105.0 [15]	22,000	4.6 [1]	85	5	10	0.8
Jamaica	119,402	11,424 [2]	2,000.0	501,000 [1]	4.3 [1]	2,122	340	1,782	1.1
Montserrat	2,602	102	11.6	3,736	3.1	48	3	2	4.1
Puerto Rico	631,458	8,794	3,106.0	798,000	4.0	5,801	2,456	3,345	1.9
St. Kitts-Nevis [224]	n.r. [956]	389 [2]	67.0 [2]	15,000 [1]	4.5 [1]	n.r.	n.r.	n.r.	n.r.
St. Lucia [852]	n.r. [852]	616 [853]	1,113.0 [853]	25,000 [853]	4.6 [853]	n.r.	n.r.	n.r.	n.r.
St. Pierre and Miquelon	2,907	240	6.5	1,000 [1]	4.1 [1]	55	2	3	8.5
St. Vincent [360]	n.r. [360]	389 [862]	117.7 [861]	22,000 [861]	4.6 [861]	n.r.	n.r.	n.r.	n.r.
‡ Trinidad and Tobago [805]	n.r. [805]	5,128 [2]	1,133.0 [2]	263,000 [1]	4.0 [1]	n.r.	n.r.	n.r.	n.r.
‡ Truks and Caicos Islands	932	435	7.4 [629]	1,379	5.0	–	–	–	–
United States [232]	191,595,000 [783]	9,363,123 [2]	228,830.0 [795]	80,376,609 [795]	2.7 [795]	1,304,338 [795]	299,367 [801]	954,971 [801]	5.7
Virgin Islands	41,175	127	104.1	31,201	33.4	443	132	311	4.3
Virgin Islands, British [651]	n.r. [851]	130	11.2 [843]	2,400 [843]	4.7 [843]	n.r.	n.r.	n.r.	n.r.
Total World Zone 1	**208,927,387**	**9,377,264**	**266,111.2**	**90,869,325**		**1,420,046**	**328,731**	**1,027,230**	
World Zone 2									
Algeria	484,973	2,381,741 [2]	19,320.0	3,243,000 [1]	5.3 [1]	–	–	–	–
Angola [10]	n.r.	1,246,700 [2]	6,732,000 [2]	1,486,000 [1]	4.9 [1]	n.r.	n.r.	n.r.	n.r.
‡ Ascension Island [74]	n.r.	88 [618]	1.0 [618]	n.a.	n.a.	n.r.	n.r.	n.r.	n.r.
Benin [57]	n.r.	112,622 [2]	3,377.0 [2]	82,000 [1]	3.8 [1]	n.r.	n.r.	n.r.	n.r.
Botswana [204]	n.r.	569,797 [2]	780.0 [2]	140,000 [1]	5.7 [1]	n.r.	n.r.	n.r.	n.r.
Burundi [451]	n.r.	27,834 [2]	4,100.0 [2]	901,000 [1]	5.0 [1]	n.r.	n.r.	n.r.	n.r.
Cameroon [472]	n.r.	475,442 [2]	8,058.0 [2]	1,617,000 [1]	4.4 [1]	n.r.	n.r.	n.r.	n.r.
Cape Verde	1,739	4,100	296.1	70,300 [1]	5.0 [1]	25	–	–	<0.1
Central African Republic [490]	n.r.	626,777 [2]	2,200.0 [2]	464,000 [1]	4.3 [1]	n.r.	n.r.	n.r.	n.r.
Chad [529]	n.r.	1,284,634 [2]	4,000.0 [633]	1,103,000 [1]	3.9 [1]	n.r.	n.r.	n.r.	n.r.
Comoros [659]	n.r.	2,166 [2]	370.0 [643]	75,000 [1]	4.8 [1]	n.r.	n.r.	n.r.	n.r.
Congo [663]	n.r.	343,200 [2]	1,400.0 [2]	320,000 [1]	4.8 [1]	n.r.	n.r.	n.r.	n.r.
Djibouti [671]	n.r.	23,310 [2]	250.0 [2]	24,000 [1]	4.9 [1]	n.r.	n.r.	n.r.	n.r.
Egypt	534,021	1,000,000 [2]	44,000.0	8,800,000	5.0	57,267	82	20,775	1.3
Equatorial Guinea	n.r.	28,023 [2]	310.0 [2]	81,000 [1]	4.3 [1]	n.r.	n.r.	n.r.	n.r.
Ethiopia	87,846	1,221,900 [2]	31,485.0	6,297,000	5.0	4,635	51	1,533	0.2
Gabon	11,600	267,667	950.0	94,700	7.7	659	–	–	0.7
Gambia [85]	n.r.	10,367	584.5 [2]	129,000 [1]	4.4 [1]	n.r.	n.r.	n.r.	n.r.
Ghana [629]	n.r.	238,537 [648]	11,145.0 [645]	1,793,580 [648]	4.7 [648]	n.r.	n.r	n.r.	n.r.
Guinea – Bissau [44]	n.r. [44]	36,125 [2]	553.0 [2]	141,000 [1]	4.1 [1]	n.r.	n.r.	n.r.	n.r.
Guidea, Rep. of [673]	n.r.	246,048 [2]	4,500.0 [2]	1,067,000 [1]	4.7 [1]	n.r.	n.r.	n.r.	n.r.
Ivory Coast [824]	n.r.	322,500 [655]	7,036.0 [655]	1,215,000 [655]	4.6 [655]	n.r.	n.r.	n.r.	n.r.
Kenya	198,294	580,367	16,000.0 [657]	3,000,000	5.0	5,899	468	4,345	0.4
Lesotho [822]	n.r.	30,344 [657]	1,200.0	301,000 [1]	4.3 [1]	n.r.	n.r.	n.r.	n.r.
Liberia [820]	n.r.	111,370 [2]	1,733.0 [2]	397,000 [1]	4.9 [1]	n.r.	n.r.	n.r.	n.r.
Libya	n.r.	1,759,998 [669]	2,450.0 [669]	520,000 [1]	5.1 [1]	n.r.	n.r.	n.r.	n.r.
Malagasy (Madagascar) [222]	n.r.	592,800 [676]	8,250.0 [676]	1,873,000 [1]	5.0 [1]	n.r.	n.r.	n.r.	n.r.
Malawi	15,130	117,840	5,669.0 [2]	1,293,000 [1]	4.3 [1]	990	26	964	0.2
Mali [322]	n.r.	1,204,015 [679]	6,300.0 [679]	1,338,000 [1]	4.8 [1]	n.r.	n.r.	n.r.	n.r.
Mauritania [614]	n.r.	1,085,760 [682]	1,420.0 [682]	318,000 [1]	4.5 [1]	n.r.	n.r.	n.r.	n.r.
Mauritius	37,812	1,865	938.0	187,780	5.0	1,117	95	1,022	1.2
Morocco [315]	n.r.	445,356 [2]	19,600.0 [686]	3,514,000 [1]	5.8 [1]	n.r.	n.r.	n.r.	n.r.
Mozambique [827]	n.r.	789,800 [2]	12,065.0 [690]	2,337,000 [1]	4.5 [1]	n.r.	n.r.	n.r.	n.r.
Namibia (South West Africa)	54,281	824,269	961.0 [53]	161,000 *	6.0 *	n.a.	n.a.	n.a.	n.a.
Niger [840]	n.r.	1,267,000 [2]	5,200.0 [694]	1,024,000 [1]	5.2 [1]	n.r.	n.r.	n.r.	n.r.
Nigeria [843]	n.r.	924,625 [2]	80,000.0 [2]	14,441,000 [1]	5.0 [1]	n.r.	n.r.	n.r.	n.r.
Reunion	60,296	2,500	504.0	107,000 [1]	5.2 [1]	545	42	52	1.1
Rwanda [847]	n.r.	26,338 [2]	5,100.0 [2]	948,000 [1]	5.2 [1]	n.r.	n.r.	n.r.	n.r.
‡ Saint Helena [71]	n.r.	396 [2]	6.0 [2]	1,000 [1]	5.4 [1]	n.r.	n.r.	n.r.	n.r.
San tome and Principe [803]	n.r.	963 [2]	80.0 [2]	18,000 [1]	4.6 [1]	n.r.	n.r.	n.r.	n.r.
Senegal [616]	n.r.	196,340 [2]	5,380.0 [2]	1,050,000 [1]	4.8	n.r.	n.r.	n.r.	n.r.
Seychelles	7,105	444	64.0	12,700	5.0	n.a.	n.a.	n.a.	n.a.
Sierre Leone [679]	n.r.	72,325 [2]	3,500.0 [2]	726,000 [1]	4.7 [1]	n.r.	n.r.	n.r.	n.r.
Somalia [706]	n.r.	637,657 [2]	3,200.0 [2]	727,000 [1]	5.0 [1]	n.r.	n.r.	n.r.	n.r.
South Africa	2,932,983	1,133,000 *	24,152.0 [1]	6,563,000 *	5.1 [1]	n.a.	n.a.	n.a.	n.a.
Bophuthatswana [514]	10,995	40,000	1,287.8	35,369	8.0	–	–	–	–
Ciskei [515]	n.r.	7,700	635.6	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Transkei [514]	n.r.	38,650	3,006.0	n.a.	n.a.	n.r.	n.r.	n.r.	n.r.
Venda [514]	n.r.	60,000	258.0	n.a.	n.a.	n.r.	n.r.	n.r.	n.r.
Sudan	65,038	2,500,000	18,956.0	3,610,000	5.0	3,417	190	1,637	0.2

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Table 10: (continued)
Demographic Characteristics
Reported data as of January 1, 1981

AREA	TOTAL TELEPHONES	AREA Km²	TOTAL POPULATION (000)	HOUSEHOLDS NUMBER	HOUSEHOLDS AVG. NBR. OF PERSONS	EMPLOYEES NUMBER TOTAL	EMPLOYEES NUMBER MANAGEMENT	EMPLOYEES NUMBER TECHNICAL	EMPLOYEES PER 1000 POP.
World Zone 2 (Continued)									
Swaziland	12,028	17,363	547.0	86,847 [1]	6.0	389	32	396	0.7
Tanzania	93,238	942,623 [2]	16,553.0 [2]	35,550 [1]	5.1 [1]	–	–	–	–
Togo	7,870	56,000	2,498.9	456,000	5.7 [1]	613	258	355	0.3
Tunisia	188,476	163,610	6,274.0	1,140,720	5.5	3,238	1,319	1,919	0.5
Uganda [707]	n.r.	235,885 [2]	12,630.1 [711]	2,526,010 [718]	5.0	n.r.	n.r.	n.r.	n.r.
Upper Volta [881]	n.r.	274,500 [2]	6,500.0 [721]	1,431,000 [1]	4.7 [1]	n.r.	n.r.	n.r.	n.r.
Zaire [882]	n.r.	2,344,102 [2]	24,900.0 [2]	5,857,000 [1]	4.8 [1]	n.r.	n.r.	n.r.	n.r.
Zambia [883]	n.r.	752,614 [2]	5,650.0 [723]	1,227,000 [1]	4.8 [1]	n.r.	n.r.	n.r.	n.r.
Zimbabwe (Rhodesia)	224,452	390,759	7,610.0	1,001,000	7.6	–	–	–	–
Total World Zone 2	**5,028,177**	**30,099,256**	**462,616.0**	**86,407,656**		**78,793**	**2,563**	**32,958**	
World Zone 3&4									
Albania [102]	n.r. [102]	28,748 [2]	2,608 [2]	5,230 [1]	5.3 [1]	n.r.	n.r.	n.r.	n.r.
Andorra	15,785	465	36.3	11,640	3.1 [1]	70	–	–	1.9
Austria	3,010,110	83,849	7,559.4 [110]	2,764,451	2.7 [1]	n.a.	n.a.	n.a.	n.a.
Belgium	3,636,074	30,519	9,884.0	3,308,000	3.0	28,856	–	–	2.9
Bulgaria	1,255,792	110,912 [2]	8,881.0	3,160,000 [1]	2.8 [1]	–	–	–	–
Cyprus	113,437	9,251	633.5	160,400	4.0	1,510	6	1,207	2.4
Czechoslovakia	3,150,477	127,877	15,289.0	5,120,000	3.0	–	–	–	–
Denmark [165]	3,316,709	2,220,022 [123]	5,214.4	2,062,148	2.5	12,665	–	–	2.4
Finland	2,374,461	305,477	4,788.0	1,800,000 *	2.7	19,850	n.a.	n.a.	4.2
France	24,686,319	543,998	53,805.0	19,000,000	3.0	156,400	n.a.	n.a.	2.9
(5) French Guiana [264]	18,134	90,000	70.0	34,000 [1]	4.4	214	15	28	3.1
(6) French Polynesia [264]	22,523	4,000 [1]	139.0	34,000 [1]	4.4	–	–	–	–
(5) Guadeloupe [264]	50,207	1,900	320.0	95,000 [1]	4.0	553	42	50	1.7
(5) Martinique [264]	64,154	1,[illegible]	307.0	93,000 [1]	4.2	606	47	59	2.0
(6) New Caledonia [264 118]	27,963	22,[illegible]	136.0	22,000 [1]	4.5	–	–	–	–
(2) Reunion [264]	60,296	2,500	504.0	197,000 [1]	5.2	545	42	52	1.1
(1) St. Pierre and Miquelon [264]	2,907	240	6.5	1,000 [1]	4.1	55	2	3	8.5
(6) Wallis and Futuna Islands [264]	n.r.	275 [964]	9.0 [964]	2,000 [1]	4.5	n.r.	n.r.	n.r.	n.r.
German Dem. Rep.	3,156,661	108,180	16,740.0	6,445,000	2.6	182,570	–	–	10.9
Germany, Fed. Rep. [81]	28,553,662	248,667	61,658.0	24,811,000 [192]	2.5	171,493 [197]	n.a.	n.a.	2.8
Gibraltar	9,388 [123]	5	29.8	7,000	4.0	102	3	36	3.4
Greece	2,796,435	131,990	9,680.0 *	2,850,000 *	3.4 [128]	30,236 [130]	n.a.	n.a.	3.1
Guernsey Channel Islands	37,070	65	96.0	19,900	2.8	223	16	136	4.0
Hungary	1,251,295	93,032	10,713.0	3,718,000 [146]	2.8 [146]	58,510 [144]	–	–	5.5
Iceland	108,767	103,000	229.2	70,000 [1]	3.3 [1]	n.a. [152]	n.a.	n.a.	n.a.
Ireland	650,017	70,254	3,468.0	880,000	3.9	15,359	2,050 [540]	–	4.4
Italy	19,296,340	301,225	57,140.0	18,441	3.2	87,221	–	250	3.9
Jersey – Channel Islands	52,658	1,162	76.1	28,200	2.6	294	44	–	–
Liechtenstein	20,017	158	26.0	8,547	3.0	–	–	–	–
Luxembourg [103]	n.r.	2,586 [761]	263.0 [761]	128,000 [761]	2.8 [761]	n.r.	n.r.	n.r.	n.r.
Malta	82,735	31,559 [158]	316.0	90,000 [1]	3.7 [1]	80 *	–	–	0.3
Monaco [162]	n.r.	2 [763]	28.0 [762]	11,000 [762]	2.4 [762]	n.r.	n.r.	n.r.	n.r.
Netherlands	7,230,000 *	33,800	14,207.0	4,975,000	2.9	27,902	n.a.	15,072	2.0
Norway	1,851,683	324,200	4,092.5	13,010 *	3.2	n.a.	n.a.	n.a.	n.a.
Poland	3,387,396	312,677	35,735.0	11,707,000	3.2	16,519	–	–	0.5
Portugal	1,371,731	92,070	9,966.0 *	2,696,000 *	3.7	21,546	1,301	n.a.	2.2
Romania [183]	n.r. [183]	237,500 [2]	21,856.0 [2]	7,499,000 [1]	2.9 [1]	n.r.	n.r.	n.r.	n.r.
San Marino	7,685	62	21.5	5,900	3.2	–	–	–	–
Spain	11,844,623	504,750	38,208.5	10,160,000	3.8	59,213	277	3,203	1.6
Sweden	6,621,000	411,600	8,317.9	3,400,000 *	2.5	3,801	226	–	0.5
Switzerland	4,612,382	41,447	6,366.0	2,742,523	2.3	–	–	–	–
United Kingdom [225]	27,784,447	244,030	56,938.0	19,951,000	2.8	246,725 [401]	35,3[illegible] [402]	–	4.4
Yugoslavia	2,133,225	255,804	22,262.0	6,186,741	3.6	63,512	–	–	2.9
Total World Zone 3 & 4	**164,401,341**	**7,010,943**	**486,191.1**	**145,814,231**		**1,204,656**	**39,394**	**33,212**	
World Zone 5									
Argentina	2,880,754	3,761,274	27,863.0	7,738,000 [1]	3.5 [1]	50,089	2,602	7,830	1.8
Belize	6,250	23,000	145.3	28,137	5.2	181	65	116	1.3
Bolivia	135,100	1,098,581	5,137.0 [2]	1,366,000 [1]	4.5 [1]	–	–	–	–
Brazil	7,496,000	8,511,965	119,670.0	29,656,000	4.0	95,552	6,979	88,573	0.8
Chile	569,969	7,566,263 [116]	11,372.0	2,379,141 [1]	4.8	7,377	45	467	0.7
Colombia	1,623,105	1,138,914	27,122.0	4,520,000	6.0	20,443	–	–	0.8
Costa Rica	236,132	51,100	2,277.5	386,017,000	5.9	2,652	18 [221]	925	1.2
Cuba [210]	n.r. [210]	111,524 [2]	9,728.0 [2]	2,335,000 [1]	4.5 [1]	n.r.	n.r.	n.r.	n.r.
Ecuador [417]	n.r.	270,669 [555]	7,600.0 [555]	1,385,000 [1]	6.0 [1]	n.r.	n.r.	n.r.	n.r.
El Salvador	75,920	21,156	4,797.0	827,100	5.8	3,901 [225]	–	–	0.8 [226]
Falkland Islands [240]	n.r.	16,654 [2]	2.0 [2]	500 [1]	4.0 [1]	n.r.	n.r.	n.r.	n.r.
French Guiana	18,134	90,000	70.0	34,000 [1]	4.4 [1]	214	15	28	3.1
Guadeloupe	50,207	1,900	320.0	95,000 [1]	4.0 [1]	553	42	50	1.7
Guatemala	81,622	108,889	5,160.2	1,032,044	5.0	3,608	–	–	0.7
Guyana [446]	n.r.	214,969 [2]	800.0 [2]	179,000 [1]	5.3 [1]	n.r.	n.r.	n.r.	n.r.
Haiti [428]	n.r.	27,750 [735]	5,500.0 [735]	1,072,000 [735]	4.6 [735]	n.r.	n.r.	n.r.	n.r.
Honduras	n.r.	109,560 [737]	2,656.9 [737]	700,000 [737]	5.1 [737]	n.r.	n.r.	n.r.	n.r.
Martinique	64,154	1,080	302.0	93,000 [1]	4.2 [1]	606	47	59	2.0
Mexico	5,082,718 [253]	1,972,345	67,405.0 [253]	14,386,000	4.9	29,849 [276]	156 [280]	2,498 [516]	0.4
Netherlands Antilles [553]	n.r.	821 [2]	246.0 [2]	59,000 [1]	4.6 [1]	n.r.	n.r.	n.r.	n.r.
Nicaragua [723]	n.r.	130,000 [735]	2,704.0 [735]	540,000 [735]	5.0 [735]	n.r.	n.r.	n.r.	n.r.
Panama	191,913	77,082	1,939.0	395,714	4.9	3,030	–	–	1.6
Paraguay	58,713	406,752	3,218.0	565,712 [265]	5.0 [265]	2,060	200	1,860	0.6

AREA	TOTAL TELEPHONES	AREA Km^2	TOTAL POPULATION (000)	HOUSEHOLDS NUMBER	HOUSEHOLDS AVG. NBR. OF PERSONS	EMPLOYEES NUMBER TOTAL	EMPLOYEES NUMBER MANAGEMENT	EMPLOYEES NUMBER TECHNICAL	EMPLOYEES PER 1000 POP.
World Zone 5 (Continued)									
Peru	487,123	1,285,000	17,221.0	3,444,000	5.0	11,310	382	1,542	0.6
Suriname	n.r.	163,819	350.0	85,000	5.8	n.r.	n.r.	n.r.	n.r.
Uruguay	287,140	186,926	2,899.0	826,000	3.5	7,432	112	–	2.6
Venezuela	n.a.	912,050	13,616.2	2,454,075	5.5	n.a.	n.a.	n.a.	n.a.
Total World Zone 5	**19,344,864**	**28,260,240**	**300,121.1**	**480,828,423**		**238,507**	**10,863**	**103,848**	
World Zone 6									
American Samoa	5,210	130	34.1	5,200	6.0	72	4	12	2.1
Australia	7,684,336	7,862,300	14,516.9	4,771,100	3.1	0	–	–	6.2
Banaba (Ocean) Island	0	5	2.0	99	9.9	89,992	0	0	0.0
Brunei	17,930	5,765	225.0	25,000	6.4	510	9	314	2.7
Cocos (Keeling) Island	142	14	0.6	82	3.0	4	0	4	6.7
Cook Islands	n.r.	240	26.0	7,000	4.5	n.r.	n.r.	n.r.	n.r.
Fiji	45,323	18,272	624.0	98,000	6.0	1,100	360	740	1.8
French Polynesia	22,523	4,000	135.0	34,000	4.4	–	–	–	–
Guam, Mariana Islands	27,982	640	106.0	28,249	3.8	234	16	218	2.2
Indonesia	n.r.	2,027,087	141,579.0	28,342,000	5.5	n.r.	n.r.	n.r.	n.r.
Kiribati (Gilbert Islands)	724	754	60.0	9,332	6.0	32	3	9	0.5
Kiritimati (Christmas Island)	461	135	3.2	1,610	2.0	4	–	–	1.3
Kwajalein	5,790	3*	3.0	500	2.7	25*	–	–	8.3
Malaysia	595,972	329,832	13,436.0	2,375,000	5.7	3,059	n.a.	n.a.	0.2
Midway Islands	n.r.	5	2.0	–	–	n.r.	n.r.	n.r.	n.r.
Nauru	n.a.	21	7.3	1,400	5.1	n.a.	n.a.	n.a.	n.a.
New Caledonia	27,953	22,139	136.0	32,000	4.5	–	–	–	–
New Zealand	1,798,802	269,061	3,167.4	1,021,008	31.2	25,401	3,632	21,775	8.0
Niue	n.a.	259	6.0	1,000	6.2	n.a.	n.a.	n.a.	n.a.
Norfolk Island	826	40	1.8	680	2.7	3	1	2	3.9
Northern Marianas	2,258	3,056	16.8	3,400	4.9	68	13	55	4.1
Palau (Micronesia)	1,048	38	12.2	2,016	6.0	6	1	5	0.5
Papua New Guinea	49,330	462,840	3,006.8	467,700	6.4	1,464	n.a.	n.a.	0.5
Philippines	537,795	3,000	47,914.0	7,194,297	6.7*	9,527	1,199	8,328	0.2
Pitcairn Island	25	45	0.1	16	4.0	–	–	–	–
Singapore	702,219	6,178	2,413.9	500,000	4.1	10,284	561	5,419	4.3
Solomon Islands	2,474	27,560	235.0	34,869	5.7	21	3	17	0.1
Thailand	496,555	514,000	46,561.0	7,742,000	6.0	11,297	105	4,083	0.2
Tokelau Islands	0	10	1.6	n.a.	n.a.	0	0	0	0.0
Tonga	2,166	699	97.8	27,000	4.5	–	–	–	–
Tuvalu	0	26	6.0	–	–	0	0	0	0.0
Vanuatu (New Hebrides)	3,000	14,763	120.0	23,000	4.4	120	10	50	1.0
Wake Island	n.r.	8	2.0	–	–	n.r.	n.r.	n.r.	n.r.
Wallis and Futuna Islands	n.r.	275	9.0	2,000	4.5	n.r.	n.r.	n.r.	n.r.
Western Samoa	5,918	1,756	158.1	27,400	6.0	214	4	117	1.4
Total World Zone 6	**12,037,795**	**11,294,858**	**275,124.6**	**52,767,950**		**153,543**	**5,921**	**41,148**	
World Zone 7									
USSR (Soviet Union)	23,707,000	22,402,200	266,599.0	65,330,000	3.1	–	–	–	–
Total World Zone 7	**23,707,000**	**22,402,200**	**266,599.0**	**65,330,000**		–	–	–	–
World Zone 8									
Bangladesh	n.r.	142,775	84,655.0	14,351,000	5.9	n.r.	n.r.	n.r.	n.r.
China – Mainland	n.r.	9,600,000	1,000,000.0	215,380,000	4.2	n.r.	n.r.	n.r.	n.r.
China-Taiwan	3,166,169	36,002	17,966.0	3,755,000	4.8	26,581	13,365	13,616	1.5
Hong Kong	1,676,298	1,060	5,120.0	1,211,000	4.2	11,025	73	7,084	2.2
Japan	58,007,409	377,708	117,414.8	36,346,662	3.2	333,347	n.a.	n.a.	2.8
Kampuchea	n.r.	181,035	5,000.0	n.a.	n.a.	n.r.	n.r.	n.r.	n.r.
Korea, Dem. Peo. Rep.	n.r.	121,129	17,072.0	32,310	5.6	n.r.	n.r.	n.r.	n.r.
Korea, Rep. of	3,286,800	98,955	37,449.0	8,000,393	4.7	38,238	15,917	22,321	1.0
Laos	n.r.	236,800	3,546.0	718,000	5.2	n.r.	n.r.	n.r.	n.r.
Macao	14,364	155	276.0	60,400	4.6	164*	93	71	0.6*
Vietnam	n.r.	329,556	49,890.0	9,843,000	4.9	n.r.	n.r.	n.r.	n.r.
Total World Zone 8	**96,251,040**	**11,125,176**	**1,338,588.8**	**289,697,788**		**408,710**	**29,448**	**43,092**	
World Zone 9									
Afganistan	n.r.	647,497	15,108.0	3,863,000	5.7	n.r.	n.r.	n.r.	n.r.
Bahrain	72,564	622	345.0	52,000	5.7	n.a.	n.a.	n.a.	n.a.
Bhutan	n.r.	47,000	1,240.0	244,999	5.4	n.r.	n.r.	n.r.	n.r.
Burma	n.r.	676,552	32,765.0	7,036,000	5.0	n.r.	n.r.	n.r.	n.r.
India	2,765,096	3,287,782	658,141.0	132,848,000	5.2	289,000	–	–	0.4
Iran	1,227,293	1,648,000	38,764.0	7,756,740	5.0	31,240	–	–	0.8
Iraq	n.r.	434,924	13,600.0	2,303,000	5.7	n.r.	n.r.	n.r.	n.r.
Israel	1,230,000	20,300	3,932.3	1,040,000	3.8	8,230	1,130	7,100	2.1
Jordan	n.r.	97,740	2,964.0	573,000	5.6	n.r.	n.r.	n.r.	n.r.
Kuwait	214,763	17,820	1,400.0	200,000	7.0	7,456	2,227	5,229	5.3

Table 10: (continued)
Demographic Characteristics
Reported data as of January 1, 1981

AREA	TOTAL TELEPHONES	AREA Km²	TOTAL POPULATION (000)	HOUSEHOLDS		EMPLOYEES			
				NUMBER	AVG. NBR. OF PERSONS	NUMBER			PER 1000 POP.
						TOTAL	MANAGEMENT	TECHNICAL	
World Zone 9 (Continued)									
Lebanon [450]	n.r.	10,350 [2]	3,149.0 [2]	611,000 [1]	5.6 [1]	n.r.	n.r.	n.r.	n.r.
Maldives	1,061	10,748,467	143.0	23,149	6.2	71 [426]	–	–	0.5 [426]
Mongolia [458]	n.r.	1,595,000 [534]	1,576.0 [534]	340,000 [1]	4.9 [1]	n.r.	n.r.	n.r.	n.r.
Nepal [446]	n.r.	140,797 [2]	14,315.0	2,383,000 [1]	6.0 [1]	n.r.	n.r.	n.r.	n.r.
Oman [465]	n.r.	300,000 [2]	891.0 [531]	158,000 [531]	5.6 [531]	n.r.	n.r.	n.r.	n.r.
Pakistan	367,000 [438]	796,095	83,782.0	14,650,000	5.7	35,286	–	–	0.4
Qatar	53,324	11,400	204.0	36,600	5.8	n.a.	n.a.	n.a.	n.a.
Saudi Arabia	442,514	2,380,000	8,300.0	1,275,000	6.5	12,571 [457]	1,827 [457]	7,493 [457]	1.5 [457]
Sri Lanka	83,500	66,038	14,850.0	2,475,000	6.0	11,960	165	8,480	0.8
Syria [477]	n.r.	185,184 [527]	7,800.0 [527]	1,546,000 [1]	5.5 [1]	n.r.	n.r.	n.r.	n.r.
Turkey	1,902,081	774,815	45,217.6	7,895,000	5.7	–	–	–	–
United Arab Emirates	208,896	83,600	1,043.1	218,158	4.8	4,157	762	2,272	4.0
Yemen (Aden) [517]	n.r.	290,000 [2]	1,969.0 [525]	n.a.	n.a.	n.r.	n.r.	n.r.	n.r.
Yemen (Sanaa)	n.r.	195,000 [2]	5,926.0 [524]	n.a.	n.a.	n.r.	n.r.	n.r.	n.r.
Total World Zone 9	**8,588,172**	**24,455,061**	**956,965.0**	**187,526,647**		**3,905,320**	**422,941**	**1,312,062**	
TOTAL (ALL WORLD ZONES)	**508,285,866**	**154,125,100**	**4,392,026.8**	**1,399,241,997**		**3,805,320**	**422,941**	**1,312,062**	

Corrections and Omissions

The World's Telephones publication staff apologizes for the following data display errors and omissions that appeared in the January 1980 edition.

Contents, page 3: Table 16 should read:
16 Reported Data Revisions for the January 1, 1979 edition.

Table 1, page 10: Graph: Countries reporting 1,000,000 or more telephones and 15 per 100 population.

The United States should have shown Southfield, Michigan as the city with the highest telephone development.

Southfield was reported to have 170.0 total telephones per 100 population. (Please see Table 13, page 52.)

Table 4, page 19: This section's heading should have read:
Total Telephones Connecting with United States from Foreign Sources (including main telephones via ISD).

Table 6, pages 27-30: The second column under should have read: TOTAL PBX & ASSOCIATED EXTENSION TELEPHONES

PERCENT OF TOTAL TELS.

Table 7, pages 31 & 32: The second column under should have read: NBR. CAPABLE OF ORIG. INT'L CALLS

PUBLIC TEL. STNS.

Table 9, page 35: Mozambique's (World Zone 2), population data should have read 12,065.0.

Table 9, page 37: Delete reference to note 359 on Tokelau Islands (World Zone 6), population data.

Table 10, page 38: Mauritius (World Zone 2) International pulse metered data should have been shown as 695.4.

Table 11, page 41: Puerto Rico[133] (World Zone 1) should carry note 133 across all columns.

All tables where appropriate: Namibia should have been shown as Namibia (Southwest Africa).

Table 11:

Reported Telephone Conversations (local, interurban and international with percent ISD)

Reported data are as of January 1, 1981

AREA	LOCAL		INTERURBAN		INTERNATIONAL		
	PULSE METERED	ALL OTHER	PULSE METERED	ALL OTHER	PULSE METERED	ALL OTHER	% ISD
World Zone 1							
Anguilla[224]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Antigua[226]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Bahamas	108,532.2	–	–	1,012.6[26]	1,101.4[27]	868.5[28]	55.1
Barbados	270,000.0*	–	–	–	–	690.0	12.2
Bermuda	39,340.0	–	–	–	–	1,482.8	71.4
Canada[564]	92,142,527.7	13,671,021.0	62,783.0	66,482,191.0	–	202,831.0	59.0[572]
Cayman Islands[537]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
‡ Dominica[532]	n.r.	n.r.	[illegible]	n.r.	n.r.	n.r.	n.r.
Dominican Republic	–	32,070.4	3,924.0	4,565.6	–	2,231.8	–
Grenada[14]	–	–	–	–	90.0	–	–
Jamaica	–	–	–	8,111.7[11]	–	1,338.5[17]	–
Montserrat, West Indies	2,267.0	–	0.0	–	503.2[845]	0.0	0.0
Puerto Rico	–	43,141.0	–	–	12,126.0	–	91.6
St. Kitts-Nevis[724]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
St. Lucia[812]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
St. Pierre and Miquelon	9,100.0[837]	–	–	–	n.a.	n.a.	–
St. Vincent[860]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
‡ Trinidad and Tobago[865]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
‡ Turks and Caicos Islands	248.0[837]	–	–	–	–	3.4[838]	0.0
United States[232]	4849.0[885]	23,762,200.0[194]	–	19,783,000.0[785]	–	450,000.0[786]	68.0[787]
Virgin Islands	0.0	83,368.0	0.0	0.0	0.0	2,605.0	2.5
Virgin Islands, British[851]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
World Zone 2							
Algeria	995,894.1	–	107,324.1	–	138,173.9	130,564.0	–
Angola[60]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
‡ Ascension Island[74]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Benin[82]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Botswana[304]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Burundi[451]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Cameroon[472]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Cape Verde	91.7	–	17.4	–	–	–	–
Central African Republic[490]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Chad[139]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Comoros[659]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Congo[661]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Djibouti[671]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Egypt	578,062.0	–	–	51,734.0	776.0	307.0	70.0
Equatorial Guinea	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Ethiopia	210,965.0	10,417.0	–	3,541.0	–	108.0	–
Gabon	–	–	–	12.0	978.0	68.0	–
Gambia[69]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Ghana[629]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Guinea-Bissau[44]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Guinea, Rep. Of[673]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Ivory Coast[824]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Kenya	431,955.2[807]	7,395.8[42]	–[77]	6,620.4[43]	n.a.	596.5[64]	4.1
Lesotho[422]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Liberia[820]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Libya	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Malagasy (Madagascar)[222]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Malawi	n.a.	n.a.	n.a.	n.a.	n.a.	107.9	3.1
Mali[323]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Mauritania[814]	n.r.	n.r.	n.r.	n.r.	–	n.r.	n.r.
Mauritius	–	–	34,218.0[88]	–	–	162.0[50]	0.0
Morocco[815]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Mozambique[827]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Namibia (South West Africa)	200,796.0	6,078.0[45]	–	4,310.0[52]	32,702.0[51]	12.0[52]	99.6
Niger[540]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Nigeria[642]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Reunion	196,100.0[801]	–	–	–	n.a.	n.a.	–
Rwanda[647]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
‡ Saint Helena[71]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Sao Tome and Principe[653]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Senegal[816]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Seychelles	10,499.0	–	–	–	258.0[962]	–	–
Sierre Leone[679]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Somalia	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
South Africa	8,879,052.0[76]	157,074.0	–[77]	902,000.0[78]	986,366.0[53]	979.0[80]	88.9
Bophuthatswana[514]	–	–	35,267.0	865.0	–	–	–
Ciskei[515]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Transkei[516]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Venda[514]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Sudan	30,000.0	–[69]	65,000.0	1,422.3	n.a.	669.2	n.a.

AREA	LOCAL		INTERURBAN		INTERNATIONAL		
	PULSE METERED	ALL OTHER	PULSE METERED	ALL OTHER	PULSE METERED	ALL OTHER	% ISD
World Zone 2 (Continued)							
Swaziland	92,000.0 [807]	–	–	–	–	110.0	–
Tanzania	–	660,950.8	–	288,812.7	–	23,940.8	–
Togo	–	–	–	31,485.0 [50]	–	171.1	–
Tunisia	– [91]	–	376,730.3 [91]	16,180.8 [92]	178,612.4 [91]	6,348.3 [92]	35.8
Uganda [107]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Upper Volta [887]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Zaire [882]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Zambia [883]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Zimbabwe (Rhodesia)	187,785.0	–	439,850.0	–	–	–	–
World Zone 3 & 4							
Albania [102]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Andorra	10,900.0 [93]	–	2,702.0 [94]	–	–	132.0 [95]	0.0
Austria	2,146,285.6 [106]	n.a.	–	1.1 [107]	19,788.3 [108]	–	99.0
Belgium	1,395,242.0 [548]	–	1,583,583.0 [548]	–	–	62,376.0 [549]	99.1
Bulgaria	–	–	–	39,400.0	–	1,319.0	–
Cyprus	323,877.0 [118]	–	26.0 [119]	–	370,648.0 [120]	38,482.0	91.0
Czechoslovakia	3,391,241.0 *	–	–	63,981.0 [821]	3,723.0	318.0	92.1
Denmark [165]	1,992,557.0	–	1,120,830.0	712.0	25,214.0	993.0	96.2
Finland	3,311,809.0	1,330,143.0	5,161,377.0	298,702.0	674,534.0	11,924.0	95.5 [175]
France	–	–	59,672,698.0	–	–	707,600.0	–
(5) French Guiana [244]	85,100.0 [807]	–	–	–	n.a.	n.a.	–
(6) French Polynesia [244]	–	– [191]	1,710.0	11.7	1,222.1	64.0	64.0
(5) Guadeloupe [244]	270,100.0 [835]	–	–	–	n.a.	n.a.	–
(5) Martinique [244]	191,100.0 [807]	–	–	–	n.a.	n.a.	–
(6) New Caledonia [218,244]	11,961.0	–	4,977.0	–	12,748.0	807.0	55.0
(2) Reunion [244]	196,100.0 [807]	–	–	–	n.a.	n.a.	–
(1) St. Pierre and Miquelon [244]	9,100.0 [807]	–	–	–	n.a.	n.a.	–
(6) Wallis and Futuna Islands [244]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
German Dem. Rep.	1,280,814.0	–	632,145.0	33,501.0	8,519.0	1,940.0	81.5
Germany, Fed. Rep [87]	14,148,222.0 [191]	–	7,504,311.0 [191]	2,314.0 [191]	245,222.0 [191]	3,156.0 [191]	98.5
Gibraltar	0.0	12,464.3	–	–	–	266.1 [134]	– [135]
Greece	3,288,993.0 *	–	447,204.0 *	8,521.0	16,605.0 *	1,248.0 *	93.0
Guernsey-Channel Islands	23,788.1	22.1	2,626.8	49.1	145.0	7.0	95.0
Hungary	932,232.0	138,136.0	480,152.0	43,020.0	232,160.0	705.0	84.5
Iceland	454,406.0	–	–	1,478.0	–	240.0	–
Ireland	–	–	1,615,200.0 [494]	26,700.0 [495]	–	2,370.0 [496]	72.0
Italy	–	10,086,496.0	–	3,763,646.0	–	68,621.0	87.3
Jersey-Channel Islands	33,000.0	150.0	543.0	3.0	5,714.0	141.0	4.5
Liechtenstein	6,739.0	–	11,356.0	–	4,274.0	–	–
Luxembourg [103]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Malta	42,000.0 [50]	–	–	–	3,405.0 [175]	1,489.0	75.0
Monaco [762]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Netherlands	2,564,000.0 *	–	2,108,000.0 *	13.0	83,467.0	1,078.0	98.7
Norway	3,443,842.0 [807]	41,305.0 [186]	–	24,987.0 [196]	88,785.0 [187]	6,445.0	93.2
Poland	n.a.	n.a.	81,418.5	19,383.5	176.6	117.3	60.0
Portugal	1,432,504.0 [166]	5,332.0	1,987,060.0	14,074.0	–	24,946.0	60.0
Romania [168]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
San Marino	–	3,550.0	–	1,524.0	–	–	– [132]
Spain	–	–	1,961,966.0	59,028.0	49,125.0	2,300.0	95.5
Sweden	20,175,116.0 [807]	–	–	5,502.0 [179]	39,672.0 [179]	1,139.0 [179]	97.0
Switzerland	1,209,362.0	–	4,591,876.0	–	469,158.0	–	–
United Kingdom [325]	–	16,840,000.0 [488]	–	3,335,000.0 [488]	–	116,504.0 [489]	97.0
Yugoslavia	–	6,724.0	13,750,023.0	27,566.0	543,152.0	3,572.0	3.1
World Zone 5							
Argentina	9,225,257.0 [201]	–	–	54,334.0 [202]	3,261.0 [203]	–	59.0
Belize	20,097.0	85.0 [215]	–	–	5.8 [215]	–	0.0
Bolivia	–	375.4	–	–	–	23.7	0.0
Brazil	15,971,675.0	807,288.0	–	133,885.0	–	5,600.0	75.0
Chile	45,006.0	1,956,608.0	2,774.0	36,405.0	–	966.0	–
Colombia	–	137,228.0 [216]	–	–	–	1,510.0	27.2
Costa Rica	311,862.5	–	96,105.8	–	–	1,704.4 [219]	56.0
Cuba [210]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Ecuador	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
El Salvador [411]	–	–	375,943.6	–	1,397.7	–	–
Falkland Islands [340]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
French Guiana	85,100.0 [807]	–	–	–	n.a.	n.a.	–
Guadeloupe	270,100.0 [835]	–	–	–	n.a.	n.a.	–
Guatemala	5,590.4 [50]	27,361.9 [227]	–	–	1,358.7 [50]	9,334.8 [227]	99.9
Guyana [449]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Haiti [535]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Honduras	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Martinique	191,100.0 [807]	–	–	–	n.a.	n.a.	–
Mexico	77,563.0 [516]	10,755,053.0 [258]	8,263.0 [516]	416,902.0 [258]	883.0 [516]	26,991.0 [260]	69.4 [517]
Netherlands Antilles [551]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.

Table 11: (continued)
Reported Telephone Conversations (local, interurban and international with percent ISD)
Reported data as of January 1, 1981

AREA	LOCAL		INTERURBAN		INTERNATIONAL		
	PULSE METERED	ALL OTHER	PULSE METERED	ALL OTHER	PULSE METERED	ALL OTHER	% ISD
World Zone 5 (Continued)							
Nicaragua [723]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Panama	—	558,979.0	83,990.0 [246]	23,835.0	—	990.4 [234]	55.0
Paraguay	153,408.0 [807]	—	—	2,870.0 [246]	—	686.4 [50]	—
Peru	9,538.6 [586]	—	14,030.2 [587]	12.2 [588]	1,661.4 [786]	5.2 [767]	—
Suriname [745]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Uruguay	481,000.0	—	232,809.0	12,604.0 [262]	173,749.0	401.0 [50]	83.8
Venezuela [183]	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
World Zone 6							
American Samoa	n.a.	n.a.	n.a.	n.a.	—	120.0	40.0
Australia [812]	5,552,136.0	—	627,994.0	49,872.0	4,717.0	6,049.0	42.3
‡Banaba (Ocean) Island [342]	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Brunei	— [205]	—	15,400.0 [787]	—	—	2,200.0 [288]	2.7
‡Cocos (Keeling) Island	—	—	—	—	— [303]	— [303]	0.0 [303]
Cook Islands [526]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Fiji	n.a.	—	—	—	195.0	—	0.0
French Polynesia	—	—	1,710.0	11.7	1,222.1	64.0	64.0
Guam, Mariana Islands	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Indonesia [536]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Kiribati (Gilbert Islands) [351]	—	—	—	—	3.3	—	0.0
‡Kiritimati (Christmas Island) [399]	1,503.9	—	—	—	6.0	—	0.0
‡Kwajalein	—	3,600.0 *	—	—	—	18.3 *	0.0
Malaysia	359,802.0	45,810.0	13,690.0	2,260.0	5,202.0	—	7.6
‡Midway Islands [540]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Nauru [543]	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
New Caledonia [318]	11,961.0	—	4,977.0	—	12,748.0	807.0	55.0
New Zealand	—	—	—	95,727.9	—	2,505.2	3.9
Niue [559]	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
‡Norfolk Island	—	—	—	—	23.5	—	—
‡Northern Marianas [188]	0.0	n.a.	0.0	n.a.	0.0	4,601.0	0.0
‡Palau (Micronesia) [493]	—	10.0	—	—	—	5.0	20.0
Papua New Guinea	54,100.0	133.0	n.a.	n.a.	2,071.0	144.0	93.0
Philippines [502]	n.a.	n.a.	n.a.	10,221.3	n.a.	2,060.6	n.a.
‡Pitcairn Island	— [343]	— [343]	— [343]	— [343]	— [344]	— [344]	0.0
Singapore	3,634,500.0	0.0	9,190.0	0.0	—	3,535.0	42.8
Solomon Islands	— [347]	— [347]	— [347]	— [347]	— [347]	— [347]	n.a.
Thailand	748,911.0	—	— [355]	13,714.0	—	881.0	0.0
‡Tokelau Islands [425]	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Tonga	n.a.	n.a.	n.a.	n.a.	—	550.0 [583]	0.0 [584]
Tuvalu [401]	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Vanuatu (New Hebrides)	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	—
‡Wake Island [406]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Wallis and Futuna Islands [562]	n.r.	n.r.	n.r.	n.r	n.r.	n.r.	n.r.
Western Samoa	6,873.6	—	—	n.a.	—	371.9 [358]	—
World Zone 7							
USSR (Soviet Union)	—	—	1,264,800.0	—	—	2,280.0	—
World Zone 8							
Bangladesh [755]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
China-Mainland [503]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
China-Taiwan	7,383,467.0 *	— [374]	8,662,922.0 *	34,989.0	—	22,945.0 [478]	9
Hong Kong	— [374]	—	— [374]	— [374]	3,440.0 [375]	3,971.0 [376]	53.6
Japan [476]	n.a.	n.a.	n.a.	n.a.	382.5	803.4	32.3
Kampuchea [387]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
‡Korea, Dem. Peo. Rep.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Korea, Rep. Of	—	20,452,944.0	—	567,440.0	—	577,440.0	—
Laos [392]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Macao	0.0	— [664]	0.0	— [664]	0.0	103.6	0.0
Vietnam [400]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
World Zone 9							
Afghanistan [406]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Bahrain	71.0 [807]	0.0	—	0.0	365.0 [414]	—	82.0
‡Bhutan [520]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Burma [878]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
India [439]	8,472,000.0	—	—	169,491.0	—	1,043.0 [440]	37.6
Iran	4,826,104.0	—	19,249.0	—	17,440.0	—	8.1
Iraq [433]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Israel	1,020,000.0	—	1,980,000.0	—	655,900.0	4,750.0	83.0
Jordan [454]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Kuwait	194,832.0	—	—	—	2,923.0	—	75.0
Lebanon [460]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Maldives	5,677.0	—	—	—	—	20.1	0.0
Mongolia [468]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r	n.r.

AREA	LOCAL		INTERURBAN		INTERNATIONAL		
	PULSE METERED	ALL OTHER	PULSE METERED	ALL OTHER	PULSE METERED	ALL OTHER	% ISD
World Zone 9 (Continued)							
Nepal [445]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Oman [465]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Pakistan	–	–	109,310.0	17,330.0	542.0	147.3 [459]	–
Qatar	– [448]	– [448]	– [448]	– [448]	–	466.0	70.0
Saudi Arabia	10,039,900.0 [807]	–	– [452]	–	8,136.0	–	7.3
Sri Lanka	13.2	–	3.6	76,716.0	–	2,208.0	72.7
Syria [477]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Turkey	1,850,000.0 [430]	–	– [431]	75,632.0	– [431]	19,342.0	–
United Arab Emirates	n.a. [127]	–	85,411.0 [428]	235.0 [428]	40,602.0 [428]	9,085.0 [428]	82.0
Yemen (Aden) [617]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Yemen (Sanaa)	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.

Table 12:
Reported Telephone Conversations (most frequently called country)
Reported data are as of January 1, 1981.

CALLING AREA AND COUNTRY CODE[805]		MOST FREQUENTLY CALLED COUNTRY[877] FIRST	SECOND	THIRD	FOURTH	FIFTH	SIXTH	SEVENTH
World Zone 1								
Anguilla [724]	1	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Antigua [726]	1	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Bahamas	1	United States	Canada	United Kingdom (3)	Germany Fed. Rep. (3)	Switzerland (3)	–	–
Barbados	1	United States	United Kingdom (3)	Canada	Trinidad	St. Lucia	St. Vincent	Guyana (5)
Bermuda	1	United States	United Kingdom (3)	Canada	–	–	–	–
Canada [884]	1	United Kingdom (3)	Germany (3)	Italy (3)	France (3)	Hong Kong (8)	Greece (3)	Switzerland/Netherlands (3/3)
Cayman Islands [537]	1	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
*Dominica [532]	–	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Dominican Republic	1	United States	Puerto Rico	Venezuela (5)	Spain (3)	Curacao	–	–
Grenada [54]	1	United States	Barbados	Trinidad & Tobago	United Kingdom (3)	Canada	St. Vincent	St. Lucia
Jamaica	1	United States	Canada	United Kingdom (3)	Cayman Islands	Barbados	Trinidad	–
Montserrat, West Indies	1	Antigua	United States	United Kingdom (3)	Barbados	U.S. Virgin Islands	Puerto Rico	Trinidad
Puerto Rico	1	Dominican Republic	Spain (3)	Venezuela (5)	Mexico (5)	Canada	Italy (3)	France (3)
St. Kitts-Nevis [724]	1	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
St. Lucia [852]	1	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
St. Pierre and Miquelon	1	France (3)	Canada	Spain (3)	–	–	–	–
St. Vincent [860]	1	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
*Trinidad and Tobago [865]	–	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
*Turks and Caicos Islands	–	United States	Bahamas	Jamaica	Barbados	United Kingdom (3)	Cayman	Antigua
United States [212]	1	United Kingdom (3)[788]	Germany, Fed. Rep. (3)[789]	France (3)[790]	Italy (3)[791]	Venezuela (5)[792]	Japan (8)[793]	Colombia (5)[794]
Virgin Islands	1	United States	Puerto Rico	Caribbean Islands	Canada	Italy (3)	Greece (3)	United Kingdom (3)
Virgin Islands, British [851]	1	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
World Zone 2								
Algeria	21	France (3)	Italy (3)	Germany, Fed. Rep. (3)	Spain (3)	United Kingdom (3)	Tunisia	Netherlands (3)
Angola [60]	244	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
*Ascension Island [74]	–	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Benin [82]	229	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Botswana [204]	267	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Burundi [451]	257	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Cameroon [472]	257	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Cape Verde	238	Portugal (3)	United States (1)	Italy (3)	Netherlands (3)	Angola	Brazil (5)	France (3)
Central African Republic [490]	236	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Chad [639]	235	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Comoros [659]	269	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Congo [863]	242	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Djibouti [671]	253	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Egypt	20	Saudi Arabia (9)	United States (1)	United Kingdom (3)	Kuwait (9)	Italy (3)	Germany, Fed. Rep (3)	France (3)
Equatorial Guinea	240	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Ethiopia	251	Italy (3)	Djibouti	United States (1)	France (3)	United Kingdom (3)	Kenya	Greece (3)
Gabon	241	France (3)	Cameroon	Ivory Coast	Senegal	Morocco	Belgium (3)	United Kingdom (3)
Gambia [89]	220	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Ghana [629]	233	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Guinea-Bissau [673]	245	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Guinea, Rep. [44]	224	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Ivory Coast [824]	225	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Kenya	256	United Kingdom (3)	United States/Canada (1/1)	Italy (3)	Germany, Fed. Rep. (3)	Switzerland (3)	France (3)	Netherlands (3)
Lesotho [822]	266	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Liberia [820]	231	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Libya	21	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Malagesy (Madagascar) [222]	261	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Malawi	265	United Kingdom (3)	South Africa	United States (1)	Zimbabwe (Rhodesia)	Kenya	Germany, Fed. Rep. (3)	Italy (3)
Mali [323]	223	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Mauritania [814]	222	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Mauritius	230	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Morocco [815]	21	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Mozambique [827]	258	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Namibia (South West Africa)	264	South Africa	West Germany (3)	United Kingdom (3)	United States (1)	–	–	–
Niger [640]	227	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.

CALLING AREA AND COUNTRY CODE[885]		MOST FREQUENTLY CALLED COUNTRY[877] FIRST	SECOND	THIRD	FOURTH	FIFTH	SIXTH	SEVENTH
World Zone 2 (continued)								
Nigeria[843]	234	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Reunion	262	France (3)	Mauritius, Isle of	Madagascar	—	—	—	—
Rwanda[847]	250	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
‡Saint Helena[71]	—	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Sao Tome and Principe[803]	239	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Senegal[816]	221	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Seychelles	248	United Kingdom (3)	United States (1)	Europe (3)	Bahrain (9)	Southeast Asia (8)/Africa	Australia (6)	Canada (1)
Sierre Leone[879]	232	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Somalia[704]	252	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
South Africa	27	United Kimgdom (3)	United States (1)	West Germany (3)	Greece (3)	Italy (3)	Australia (6)	France (3)
Bophuthatswana[514]		United States (1)	United Kingdom (3)	—	—	—	—	—
Ciskei[515]		n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Transkei[514]		n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Venda[514]		n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Sudan	249	Saudi Arabia (9)	United Kingdom (3)	Egypt	United States (1)	France (3)	Greece (3)	Italy (3)
Swaziland	268	South Africa	United Kingdom (3)	United States (1)	Portugal (3)	Italy (3)	Germany (3)	Kenya
Tanzania	255	United Kingdom (3)	United States (1)	Canada (1)	Germany, Fed. Rep. (3)	India (9)	Italy (3)	Japan (8)
Togo	228	France (3)	Ivory Coast	Germany, Fed. Rep. (3)	United Kingdom (3)	Gabon	—	—
Tunisia	21	France (3)	Germany, Fed. Rep. (3)	Italy	Belgium (3)	United Kingdom (3)	Switzerland (3)	United States (1)
Uganda[707]	256	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Upper Volta[881]	226	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Zaire[882]	243	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Zambia[883]	260	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Zimbabwe (Rhodesia)	263	—	—	—	—	—	—	—
World Zone 3 & 4								
Albania[102]	355	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
‡Andora	—	United Kingdom	Portugal	Switzerland	Germany, Fed. Rep.	Netherlands	Belgium	Italy
Austria	43	Germany, Fed. Rep.	Switzerland	Italy	Yugoslavia	Netherlands	U.K./N. Ireland	France
Belgium	32	France	Netherlands	Germany, Fed. Rep.	United Kingdom	Italy	—	—
Bulgaria	359	Soviet Union (7)	German Dem. Rep.	Poland	Germany, Fed. Rep.	Greece	—	—
Cyprus	357	United Kingdom	Greece	Lebanon (9)	Germany, Fed. Rep.	United States	France	Italy
Czechoslovakia	42	Germany, Fed. Rep.	Austria	Soviet Union (7)	German Dem. Rep.	Poland	Yugoslavia	Hungary
Denmark[165]	45	Sweden	Germany, Fed. Rep.	Great Britian	Norway	Netherlands	France	Switzerland
Finland	358	Sweden	Germany, Fed. Rep.	United Kingdom	Norway	Denmark	Switzerland	Soviet Union (7)
France	33	Germany, Fed. Rep.	United Kingdom	Italy	Belgium	Spain	Switzerland	United States (1)
(5) French Guiana[244]		France	Martinique	Guadeloupe	Suriname	United States	Brazil	—
(6) French Polynesia[244]		France	New Caledonia	United States	New Zealand	Hawaii	Australia	—
(5) Guadeloupe[244]		France	Martinique	United States	French Guiana	Antigua	—	—
(5) Martinique[244]		France	Guadeloupe	United States	French Guiana	Antigua	—	—
(6) New Caledonia[318,244]		France	Australia	French Polynesia	Vanuatu	New Zealand	Wallis Et Futuna	United States
(2) Reunion[244]		France	Maurice	Madagascar	—	—	—	—
(1) St. Pierre and Miquelon[244]		France	Canada	Spain	—	—	—	—
(6) Wallis & Futuna Islands[244]		n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
German Dem. Rep.	37	Berlin (West)	Germany, Fed. Rep.	Poland	Soviet Union (7)	Czechoslovakia	Hungary	Austria
Germany, Fed. Rep.[81]	49	Austria	Netherlands	Italy	Switzerland	France	United Kingdom	Belgium
Gibraltar	350	United Kingdom	Spain	Morocco (2)	—	—	—	—
Greece	30	Germany, Fed. Rep.	United Kingdom	United States (1)	Italy	France	Cyprus	Switzerland
‡Guernsey-Channel Islands	—	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Hungary	36	Germany, Fed. Rep.	Austria	German Dem. Rep.	Soviet Union (7)	Switzerland	—	—
Iceland	354	Denmark	Sweden	United Kingdom	United States (1)	Norway	Germany, Fed. Rep.	—
Ireland	353	United States (1)[497]	Germany, Fed. Rep.	France	Netherlands	Canada (1)	Spain	Belgium
Italy	39	Germany, Fed. Rep.	Switzerland	France	United Kingdom	Austria	—	—
‡Jersey-Channel Islands	—	United Kingdom	—	—	—	—	—	—
Liechtenstein	41	—[143]	—[143]	—[143]	—[143]	—[143]	—[143]	—[143]
Luxembourg[103]	352	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Malta	356	United Kingdom	Italy	Germany, Fed. Rep.	Libya (2)	France	United States (1)	Belgium
Monaco[782]	33	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Netherlands	31	Germany, Fed. Rep.	Belgium	United Kingdom	France	Switzerland	Italy	United States (1)
Norway	47	Sweden	Denmark	United Kindgom	Germany, Fed. Rep.	United States	Finland	France
Poland	48	Germany, Fed. Rep.	United Kingdom	Czechoslovakia	France	Sweden	Soviet Union (7)	Italy
Portugal	351	France/Monaco	Spain/Andorra	United Kingdom	Germany, Fed. Rep.	Switzerland/Liechtenstein	Netherlands	Belgium
Romania[169]	40	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
‡San Marino	—	—[132]	—[132]	—[132]	—[132]	—[132]	—[132]	—[132]

Table 12: (continued)
Reported Telephone Conversations (most frequently called country)
Reported data as of January 1, 1981

CALLING AREA AND COUNTRY CODE[685]		MOST FREQUENTLY CALLED COUNTRY[577] FIRST	SECOND	THIRD	FOURTH	FIFTH	SIXTH	SEVENTH
World Zone 3 & 4 (continued)								
Spain	34	France	Germany, Fed. Rep.	United Kingdom	United States (1)	Switzerland	Italy	Netherlands
Sweden	46	Finland	Denmark	Norway	Germany, Fed. Rep.	United Kingdom	United States (1)	France
Switzerland	41	Germany, Fed. Rep.	Italy	France	United Kingdom	Austria	Netherlands	Spain/United States (1)
United Kingdom[325]	44	–	–	–	–	–	–	–
Yugoslavia	38	Germany, Fed. Rep.	Austria	Italy	Switzerland	France	–	–
World Zone 5								
Argentina	54	United States (1)	Brazil	Italy (3)	Spain	Paraguay	Chile	Germany, Fed. Rep. (3)
Belize	501	United States (1)	Caribbean (1)	–	–	–	–	–
Bolivia	591	United States (1)	Brazil	Argentina	Peru	Chile	United Kingdom (3)	Venezuela
Brazil	55	United States (1)	Argentina	Italy (3)	Portugal (3)	France (3)	Germany, Fed. Rep (3).	United Kingdom (3)
Chile	56	United States (1)	Argentina	Brazil	Venezuela	Spain (3)	Canada (1)	Peru
Colombia	57	United States (1)	Venezuela	Ecuador	Mexico	Panama	Spain (3)	Germany, Fed. Rep. (3)
Costa Rica	506	United States (1)	Nicaragua	Panama	El Salvador	Guatemala	Mexico	Honduras
Cuba[210]	53	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Ecuador[417]	593	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
El Salvador	503	United States (1)	Guatemala	Costa Rica	Mexico	Spain (3)	–	–
‡Falkland Islands[340]	–	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
French Guiana	594	France (3)	Martinique	Guadeloupe	Suriname	United States (1)	Brazil	–
Guadeloupe	590	France (3)	Martinique	United States (1)	French Guiana	Antigua (1)	–	–
Guatemala	502	United States (1)	Mexico	El Salvador	Nicaragua	Costa Rica	–	–
Guyana[449]	582	n.r.	n.r.	n.r.	n.r.	n.r.	n.r	n.r.
Haiti[628]	509	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Honduras	504	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Martinique	596	France (3)	Guadeloupe	United States (1)	French Guiana	Antigua (1)	–	–
Mexico	52	United States (1)	Canada (1)	Spain (3)	Guatemala	Venezuela	France (3)	Costa Rica
Netherlands Antilles[552]	599	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Nicaragua[723]	505	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Panama	507	United States (1)	Costa Rica	Spain (3)	Mexico	Colombia	Venezuela	Ecuador
Paraguay	595	Argentina	Brazil	United States (1)	Uruguay	Spain (3)	Germany, Fed. Rep. (3)	Chile
Peru	51	United States (1)[768]	Venezuela[769]	Ecuador[770]	Argentina[551]	Spain (3)[592]	Colombia[771]	Chile[772]
Suriname[745]	597	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Uruguay	598	Argentina	Brazil	United States (1)	Spain (3)	Chile	Paraguay	Venezuela
Venezuela[183]	58	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
World Zone 6								
American Samoa	684	United States (1)	Western Samoa	Hawaii	Taiwan (8)	Korea (8)	New Zealand	Australia
Australia[813]	61	United Kingdom (3)	United States (1)	New Zealand	Greece	Italy (1)	Germany, Fed. Rep (3)	Papua New Guinea
‡Banaba (Ocean) Island[342]	–	0	0	0	0	0	0	0
Brunei	673	Malaysia	Singapore	United Kingdom (3)	Hong Kong (8)	Philippines	Taiwan (8)	Australia
‡Cocos (Keeling) Island	–	Australia	–	–	–	–	–	–
Cook Islands[526]	682	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Fiji	679	Australia	New Zealand	United Kingdom (3)	Canada (1)	United States (1)	Hong Kong (8)	Singapore
French Polynesia	689	France (3)	New Caledonia	United States (1)	New Zealand	Hawaii (1)	Australia	–
Guam, Mariana Islands	671	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Indonesia[536]	62	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Kiribati (Gilbert Islands)[351]	686	Nauru	Australia	Fiji	United Kingdom (3)	New Zealand	–	–
‡Kiritimati (Christmas Island)[399]	–	Australia	Malaysia	Singapore	United Kingdom (3)	–	–	–
‡Kwajalein	–	United States (1)	–	–	–	–	–	–
Malaysia	60	Hong Kong (8)	United Kingdom (3)	Japan (8)	Australia	United States (1)	Taiwan (8)	Thailand
‡Midway Islands[540]	–	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Nauru[543]	674	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
New Caledonia[318]	687	France (3)	Australia	French Polynesia	Vanuatu	New Zealand	Wallis Et Futuna	United States
New Zealand	64	Australia	Great Britain (3)	United States (1)	Fiji	Canada (1)	Japan (8)	Western Samoa
Niue	683	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
‡Norfolk Island	–	Australia	New Zealand	United Kingdom (3)	Hong Kong (8)	United States (1)	New Guinea	New Hebrides

CALLING AREA AND COUNTRY CODE[655]		MOST FREQUENTLY CALLED COUNTRY[677]						
		FIRST	SECOND	THIRD	FOURTH	FIFTH	SIXTH	SEVENTH
World Zone 6 (continued)								
Northern Marianas[680]	–	Guam	Japan (8)	United States (1)	Hawaii, U.S. (1)	Philippines	Korea	Taiwan
†Palau (Micronesia)[450]	–	Guam	Japan (8)	United States (1)	Korea (8)	Philippines	Saipan	Fed. States of Micronesia[715]
Papua New Guinea	675	Australia	New Zealand	United Kingdom (3)	Philippines	United States (1)	Hong Kong (8)	Japan (8)
Philippines[632]	63	United States (1)	Hong Kong (8)	Japan (3)	Canada (1)	Taipei (8)	Australia	United States (Hawaii) (1)
†Pitcairn Island	–	–	–	–	–	–	–	–
Singapore	65	Indonesia	Hong Kong (8)	Japan (8)	United Kingdom (3)	United States (1)	Taiwan	Australia
Solomon Islands	677	Australia	Papua New Guinea	New Zealand	Fiji	Japan (8)	United Kingdom (3)	Hong Kong (8)
Thailand	66	Malaysia	Hong Kong (8)	Singapore	United States (1)	Japan (8)	India (9)	Taiwan (8)
†Tokelau Islands[425]	–	–	–	–	–	–	–	–
Tonga	676	New Zealand[564]	Australia[564]	United States (Mainland) (1)	United States (Hawaii) (1)	American Samoa	Western Samoa	Fiji
Tuvalu[601]	688	–	–	–	–	–	–	–
Vanuatu (New Hebrides)	678	New Caledonia	Australia	Fiji	France (3)	New Zealand	Hong Kong (8)	Papua New Guinea
†Wake Island[408]	–	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Wallis & Futuna Islands[562]	681	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Western Samoa	685	American Samoa[359]	New Zealand[359]	United States (1)[359]	Australia[359]	Fiji[359]	–[359]	–[359]
World Zone 7								
USSR (Soviet Union)	7	–	–	–	–	–	–	–
World Zone 8								
Bangladesh[755]	880	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
China-Mainland[502]	86	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
China-Taiwan	886	Japan	United States (1)	Hong Kong	Singapore	Philippines (6)	Korea	Indonesia (6)
Hong Kong	852	Taiwan	Japan	Macao	United States (1)	United Kingdom (3)	Singapore (6)	China
Japan[476]	81	United States (1)	Korea	China-Taiwan	Hong Kong	United Kingdom (3)	Germany, Fed. Rep. (3)	Singapore
Kampuchea[367]	855	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
†Korea, Dem. Peo. Rep.	–	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Korea, Rep. Of	82	Japan	United States (1)	Hong Kong	China-Taiwan	Germany, Fed. Rep. (3)	–	–
Laos[382]	856	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Macao	853	Hong Kong	China	Portugal (3)	Thailand (6)	China-Taiwan	United States (1)	Japan
Vietnam[420]	84	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
World Zone 9								
Afghanistan[428]	93	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Bahrain	973	United Arab Emirates	Saudi Arabia	United Kingdom (3)	Kuwait	Qatar	United States (1)	–
†Bhutan[520]	–	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Burma[678]	95	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
India[419]	91	United Kingdom (3)	United States (1)	United Arab Emirates	Singapore (6)	Germany, Fed. Rep. (3)	Kuwait	Canada (1)
Iran	98	United States (1)	United Kingdom (3)	Germany Fed. Rep. (3)	United Arab Emirates	France (3)	Italy (3)	Turkey
Iraq[423]	964	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Israel	972	United States (1)	United Kingdom (3)	France (3)	Germany, Fed. Rep (3)	Switzerland (3)	Italy (3)	Canada (1)
Jordan[454]	962	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Kuwait	965	United Kingdom (3)	Saudi Arabia	United States (1)	United Arab Emirates	Bahrain	Germany, Fed. Rep. (3)	Egypt (2)
Lebanon[450]	961	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Maldives	960	Sri Lanka	Germany, Fed. Rep. (3)	Italy (3)	Singapore (6)	France (3)	India	United Kingdom (3)
Mongolia[436]	976	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Nepal[445]	977	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Oman[466]	968	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Pakistan	92	United Kingdom (3)	United States (1)	Saudi Arabia	United Arab Emirates	Japan (8)	Kuwait	Hong Kong (8)
Qatar	974	Bahrain	United Kingdom (3)	Dubai (U.A.E.)	Abu Dhabi (U.A.E.)	Saudi Arabia	Kuwait	Sharjah (U.A.E.)
Saudi Arabia	966	United States (1)	United Kingdom (3)	France (3)	Egypt (2)	Germany (3)	United Arab Emirates	Italy (3)
Sri Lanka	94	United Kingdom (3)	Singapore (6)	United States (1)	Hong Kong (8)	Japan (8)	Australia (6)	Malaysia (6)
Syria[477]	963	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Turkey	09	Germany, Fed. Rep. (3)	United Kingdom (3)	Switzerland (3)	United States (1)	France (3)	Netherlands (3)	Austria (3)
United Arab Emirates	971	United Kingdom (3)	Bahrain	Kuwait	Qatar	United States (1)	Saudi Arabia	Oman
Yemen (Aden)[417]	967	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Yemen (Sanaa)	969	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.

Table 13:
International Telephone Service Information (dialable country codes)
Reported data are as of January 1, 1981

AREA	NUMBER OF CCITT COUNTRY CODES DIALABLE [640] — ON A DIRECT SERVICE BASIS: ISD	SEMI-AUTO	MANUAL	TOTAL	ON A TRANSIT BASIS ONLY: ISD	SEMI-AUTO	MANUAL	TOTAL
World Zone 1								
Anguilla [224]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Antigua [226]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Bahamas	4	2	—	6	—	—	—	—
Barbados	12	0	—	12	97	0	66	163
Bermuda	4	—	—	4	37	48	83	168
Canada [884]	44	26	9	79	—	37	61	98
Cayman Islands [537]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
‡Dominica [532]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Dominican Republic	—	6	—	6	—	6	163	169
Grenada [14]	—	25	—	25	—	141	—	141
Jamaica	1	102	—	103	—	70	—	70
Montserrat, West Indies	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Puerto Rico	1 [19]	3 [21]	— [23]	4 [25]	1 [20]	5 [22]	165 [24]	171 [24]
St. Kitts-Nevis [224]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
St. Lucia [852]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
St. Pierre and Miquelon	1	1	0	2	0	120	50	170
St. Vincent [860]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
‡Trinidad and Tobago [865]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
‡Turks and Caicos Islands	—	—	—	—	—	—	—	—
United States [232]	72	19	9	100	7	20	44	71
Virgin Islands	1	69	105	175	0	0	0	
Virgin Islands, British [851]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
World Zone 2								
Algeria	5	16	11	32	9	3	6	18
Angola [60]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
‡Ascension Island [74]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Benin [82]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Botswana [304]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r	n.r.	n.r.
Burundi [451]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Cameroon [472]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Cape Verde [639]	—	128	2	130	—	1	—	1
Central African Republic [490]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Chad	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Comoros [659]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Congo [663]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Djibouti [671]	n.r.	n.r.	n.r.	n.r.	n.r.*	n.r.	n.r.	n.r.
Egypt	21	3	5	29	98	—	32	130
Equatorial Guinea	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Ethiopia	—	—	17	17	—	—	—	—
Gabon	12	2	0	14	66	50	37	153
Gambia [85]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Ghana [629]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Guinea-Bissau [44]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Guinea, Rep. Of [673]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Ivory Coast [824]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Kenya	n.a.	125	n.a.	125	n.a.	62	n.a.	62
Lesotho [822]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Liberia [820]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Libya	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Malagasy (Madagascar) [222]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Malawi	7 [880]	—	n.a.	7	102 [880]	—	n.a.	102
Mali [323]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Mauritania [814]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Mauritius	0	5	—	5	0	152	2	154
Morocco [815]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Mozambique [827]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Namibia (South West Africa)	32	12	4	48	10	81	55	146
Niger [840]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Nigeria [843]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Reunion	1	3	0	4	0	120	50	170
Rwanda [847]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
‡Saint Helena [71]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Sao Tome and Principe [803]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Senegal [816]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Seychelles	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Sierre Leone [879]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Somalia [704]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
South Africa	32	12	4	48	10	81	55	146
Bophuthatswana [514]	— [509]	— [509]	— [509]	— [509]	— [509]	— [509]	— [509]	— [509]
Ciskei [515]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Transkei [514]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Venda [514]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Sudan	n.a.	6	—	6	n.a.	32	40	72

13

AREA	NUMBER OF CCITT COUNTRY CODES DIALABLE [640]							
	ON A DIRECT SERVICE BASIS				ON A TRANSIT BASIS ONLY			
	ISD	SEMI-AUTO	MANUAL	TOTAL	ISD	SEMI-AUTO	MANUAL	TOTAL
World Zone 2 (Continued)								
Swaziland	2	–	–	2	91	–	–	91
Tanzania	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Togo	–	–	–	–	–	–	–	–
Tunisia	17	–	1	18	44	34	81	159
Uganda [707]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Upper Volta [881]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Zaire [882]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Zambia [883]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Zimbabwe (Rhodesia)	–	–	–	–	–	–	–	–
World Zone 3 & 4								
Albania [102]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
‡ Andorra	15 [97]	–	–	15 [96]	92	93 [96]	–	185 [96]
Austria	44	3	3	50	4	15	131	150
Belgium	41	12	2	55	24	51	4	119
Bulgaria	–	–	–	–	–	–	–	–
Cyprus	13	–	–	13	49	9	1	59
Czechoslovakia	19	–	2	21	6	14	22	42
Denmark [165]	24	28	0	52	3	76	54	133
Finland	15	–	–	15	18	55	100	173
France	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
(5) French Guiana [244]	3	3	0	6	28	92	50	170
(6) French Polynesia [244]	2 [311]	6	2	10	0	70	95 [312]	165
(5) Guadeloupe [244]	6	0	0	6	69	43	53	165
(5) Martinique [244]	6	0	0	6	69	43	53	165
(6) New Caledonia [318,244]	–	–	–	–	2	1	101	104
(2) Reunion [244]	1	3	0	4	0	120	50	170
(1) St. Pierre and Miquelon [244]	1	1	0	2	0	120	50	170
(6) Wallis and Futuna Islands [244]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
German Dem. Rep.	21	4	5	30	7	67	90	164
Germany, Fed. Rep. [81]	64	20	5	89	29	44	40	113
Gibraltar	0	3	3	6	0	196	3	199
Greece	38	14	6	58	20	49	48 [126]	117
‡ Guernsey-Channel Islands	101	– [573]	– [573]	101	–	– [573]	– [573]	– [573]
Hungary	–	–	–	–	–	–	–	–
Iceland	–	n.a.	n.a.	n.a.	–	n.a.	n.a.	n.a.
Ireland	13	13	–	26	59	63	66	188
Italy	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
‡ Jersey-Channel Islands	–	–	–	–	112 [116]	–	–	112
Liechtenstein	– [143]	– [143]	– [143]	– [143]	– [143]	– [143]	– [143]	– [143]
Luxembourg [103]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Malta	4	6	–	10	–	165 [156]	–	165 [156]
Monaco [782]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Netherlands	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Norway	23	3	–	26	23	62	78	163
Poland	41	–	–	41	–	–	–	–
Portugal	8	4	0	12	0	16	3	19
Romania [169]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
‡ San Marino	– [132]	– [132]	– [132]	– [132]	– [132]	– [132]	– [132]	– [132]
Spain	57	24	6	87	–	2	3	5
Sweden	29	2	2	33	9	63	61	133
Switzerland	67	2	4	73	40	35	64	139
United Kingdom [325]	80	29	9	118	24	22	48	94
Yugoslavia	20	21	5	46	6	23	99	128
World Zone 5								
Argentina	21	43	4	68	122	101	54	277
Belize	0	n.a.	n.a.	n.a.	–	n.a.	n.a.	n.a.
Bolivia	–	–	–	–	–	–	–	–
Brazil	57	73	82	212	2	–	–	2
Chile	–	–	–	–	–	–	–	–
Colombia	10	17	2	29	70	13	75	158
Costa Rica	11	1	0	12	28	21	83	132
Cuba [210]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Ecuador [417]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
El Salvador	9	–	–	9	29	–	137	166
‡ Falkland Islands [340]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
French Guiana	3	3	0	6	28	92	50	170
Guadeloupe	6	0	0	6	69	43	53	165
Guatemala	7 [228]	0	0	7 [228]	74 [228]	0	0	74 [228]
Guyana [449]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Haiti [626]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Honduras	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Martinique	6	0	0	6	69	43	53	165

Table 13: (continued)
International Telephone Service Information
Reported data as of January 1, 1981

AREA	NUMBER OF CCITT COUNTRY CODES DIALABLE [540]							
	ON A DIRECT SERVICE BASIS				ON A TRANSIT BASIS ONLY			
	ISD	SEMI-AUTO	MANUAL	TOTAL	ISD	SEMI-AUTO	MANUAL	TOTAL
World Zone 5 (Continued)								
Mexico	— [261]	— [262]	— [261]	— [261]	—	—	—	—
Netherlands Antilles [553]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Nicaragua [723]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Panama	16	1	3	20	197 [235]	15	8	220 [235]
Paraguay	—	—	—	—	—	—	—	—
Peru	—	24 [773]	9 [773]	33 [773]	—	1 [773]	—	1 [773]
Suriname [745]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Uruguay	1	30	7	38	86	—	—	86
Venezuela [163]	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
World Zone 6								
American Samoa	—	—	—	—	—	—	—	—
Australia [813]	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Banabe (Ocean) Island [342]	0	0	0	0	0	0	0	
Brunei	4	0	0	4	91 [240]	0	32	123
Cocos (Keeling) Island	0 [305]	0 [305]	0	0	0 [305]	0 [305]	175 [305]	175 [305]
Cook Islands [526]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Fiji	0	43	0	43	0	129	0	129
French Polynesia	2 [311]	6	2	10	0	70	95 [312]	165
Guam, Mariana Islands	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Indonesia [536]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Kiribati (Gilbert Islands) [357]	—	—	—	—	—	—	—	—
Kiritimati (Christmas Island) [339]	0 [295]	0 [295]	0 [295]	0 [295]	0 [295]	0 [295]	0 [295]	— [295]
Kwajalein	— [842]	— [842]	— [842]	— [842]	— [842]	— [842]	— [842]	— [842]
Malaysia	9	20	0	29	0	154	0	154
Midway Islands [540]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Nauru [542]	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
New Caledonia [316]	—	—	—	—	2	1	101	104
New Zealand	14	1	2	17	60	60	70	190
Niue [559]	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Norfolk Island	—	—	—	—	—	—	—	—
Northern Marianas [168]	0	4	0	4	0	103	90	193
Palau (Micronesia) [483]	—	—	—	—	—	1	—	1
Papua New Guinea	1	7	134	142	n.a.	n.a.	n.a.	n.a.
Philippines [372]	n.a.	2	2	4	n.a.	101	61	162
Pitcairn Island	0	0	0	0	0	0	0	
Singapore	29	2	5	36	48	39	77	164
Solomon Islands	n.a.	n.a.	n.a.	— [349]	n.a.	n.a.	n.a.	— [349]
Thailand	—	19	1	20	—	115	43	158
Tokelau Islands [425]	0	0	0	0	0	0	0	
Tonga	— [504]	— [504]	— [504]	— [504]	— [504]	— [504]	— [504]	— [504]
Tuvalu [401]	0	0	0	0	0	0	0	
Vanuatu (New Hebrides)	0	5	0	5	0	153	0	153
Wake Island [406]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Wallis and Futuna Islands [962]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Western Samoa	—	1	3	4	—	—	175	175
World Zone 7								
USSR (Soviet Union)	—	—	—	—	—	—	—	—
World Zone 8								
Bangladesh [755]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
China-Mainland [501]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
China-Taiwan	12	8	0	20	3	36	134	173
Hong Kong	27	12	9	48	45	44	59	148
Japan [476]	35	11	8	54	24	71	64	159
Kampuchea [367]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Korea, Dem. Peo. Rep.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Korea, Rep. Of	0	24	1	25	0	71	122	193
Laos [782]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Macao	0	1	120	121	0	40	4	44 [905]
Vietnam [400]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
World Zone 9								
Afghanistan [405]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Bahrain	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Bhutan [520]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Burma [878]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
India [439]	1	26	10	37	—	32	135	167

AREA	NUMBER OF CCITT COUNTRY CODES DIALABLE[440]							
	ON A DIRECT SERVICE BASIS				ON A TRANSIT BASIS ONLY			
	ISD	SEMI-AUTO	MANUAL	TOTAL	ISD	SEMI-AUTO	MANUAL	TOTAL
World Zone 9 (Continued)								
Iran	20	24	11	55	–	7	–	7
Iraq[433]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Israel	26	1	–	27	26	120	–	146
Jordan[434]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Kuwait	23	4	2	29	–	–	–	–
Lebanon[435]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Maldives	0	67	25	92	0	–	–	–
Mongolia[436]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Nepal[445]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Oman[465]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Pakistan	–	–	–	–	–	–	–	–
Qatar	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Saudi Arabia	45	3	6	54	45	4	97	146[453]
Sri Lanka	9	15	2	26	17	158	3	178
Syria[477]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Turkey	19	2	7	28	13	0	107	120
United Arab Emirates	19	3	3	25	7	133	–	140
Yemen (Aden)[617]	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Yemen (Sanaa)	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.

Table 14:
Total and Main Telephones in the World's Principal Cities

Reported data are as of January 1, 1981.

COUNTRY & CITY *	TELEPHONE EXCHANGE GEO. SCOPE [8]	TELEPHONE EXCHANGE NBR.	TOTAL TELEPHONES	POPULATION (000)	TOT. TELS. PER 100 POP.	TOTAL MAIN TELS.	TOT. MAIN TELS./ 100 POP.
World Zone 1							
ANGUILLA [224]	–	–	n.r. [668]	6.5 [781]	–	n.r.	–
Reporting city accounts for –% of the total telephones.Δ							
Reporting city accounts for –% of the total main telephones.Δ							
Reporting city accounts for 100.0% of the total population.Δ							
The Valley	–	–	n.r.	6.5	–	n.r.	–
ANTIGUA [226]	–	–	n.r. [226]	74.0 [7]	–	n.r.	–
Reporting city accounts for –% of the total telephones.Δ							
Reporting city accounts for –% of the total main telephones.Δ							
Reporting city accounts for –% of the total population.Δ							
Saint Johns	–	–	n.r.	n.r.	–	n.r.	–
BAHAMAS	–	–	71,883	209.0	34.4	31,087	14.9
Reporting cities account for 125.5% of the total telephones.Δ							
Reporting cities account for 105.4% of the total main telephones.Δ							
Reporting cities account for 164.8% of the total population.Δ							
Abaco	–	–	983	7.3	13.5	660	9.0
Andros	–	–	–	8.3	–	–	–
Bimini - Cat Cay	(B)	–	424	1.4	30.3	311	22.2
Deadman's Cay	(C)	–	93	3.8 [466]	2.5	20	0.5
Eight Mile Rock	(B)	–	1,082	n.a.	–	622	–
Eleutherea	–	–	1,797	8.3	21.7	1,474	17.8
Exuma	(B)	–	203	3.6	5.8	140	3.9
Freeport	(B)	–	14,972	16.0	93.6	6,169	38.6
Fresh Creek	(B)	–	194	n.a. [467]	–	144	–
Governor's Harbour	(B)	–	547	n.a. [468]	–	382	–
Grand Bahama Island	–	–	16,047	33.1	48.5	–	–
Green Turtle Cay	(B)	–	102	n.a.	–	88	–
Harbour Island	(B)	–	264	n.a.	–	322	–
Inagua	–	–	120	.9	13.3	93	10.3
Long Island	–	–	106	3.3	3.2	–	–
Marsh Harbour	(B)	–	711	1.0	71.1	450	45.0
Nassau	(A)	–	51,255	122.0	42.0	20,810	17.1
New Providence	–	–	n.a.	135.4	–	n.a.	–
North Andros	(B)	–	456	n.a. [467]	–	373	–
Rock Sound	(B)	–	288	n.a. [468]	–	214	–
Spanish Wells	(B)	–	486	–	–	420	–
Stella Maris	(B)	–	13	–	–	15	–
Treasure Cay	(B)	–	80	–	–	50	–
BARBADOS	–	–	66,679	250.5	26.6	43,404	17.3
Reporting city accounts for 50.2% of the total telephones.Δ							
Reporting city accounts for 47.1% of the total main telephones.Δ							
Reporting city accounts for 39.9% of the total population.Δ							
Bridgetown	(A)	3	33,494	100.0	33.5	20,439	20.4
BERMUDA	–	–	46,290	54.7	84.6	20,361	37.2
Reporting city accounts for 67.1% of the total telephones.Δ							
Reporting city accounts for 63.4% of the main telephones.Δ							
Reporting city accounts for 47.4% of the total population.Δ							
Hamilton	(A)	3	31,043	25.9 *	119.9	12,918	49.9
CANADA [864]	–	–	16,178,158	24,105.2	67.1	12,783,694	53.0
Reporting cities account for 49.4% of the total telephones.Δ							
Reporting cities account for 36.0% of the total main telephones.Δ							
Reporting cities account for 41.0% of the total population.Δ							

COUNTRY & CITY *	TELEPHONE EXCHANGE GEO. SCOPE [8]	TELEPHONE EXCHANGE NBR.	TOTAL TELEPHONES	POPULATION (000)	TOT. TELS. PER 100 POP.	TOTAL MAIN TELS.	TOT. MAIN TELS./ 100 POP.
CANADA (Continued)							
Brantford	(A)	–	51,283	79.0	64.9	31,836	40.3
Calgary	(A)	–	590,758	585.0	101.0	319,748	54.7
Charlottetown	(A)	–	27,845	37.6	74.1	14,497	38.6
Edmonton	(B)	46	468,442	516.1	90.8	270,903	52.5
Fredericton	(D)	2	–	50.0	–	22,929	45.9
Halifax-Dart.	(A)	–	166,624	–	–	106,114	–
Hamilton	(A)	–	228,251	338.0	67.5	136,747	40.5
Kingston	(A)	–	76,531	105.0	72.9	45,322	43.2
Kitchener-Wat.	(A)	–	136,201	190.0	71.7	83,181	43.8
Lethbridge	(A)	–	50,334	50.0	100.7	28,767	57.5
London	(A)	–	210,895	269.0	78.4	119,515	44.4
Medicine Hat	(A)	–	33,497	35.0	95.7	19,917	56.9
Moncton	(D)	1	–	80.0	–	32,986	41.2
Montreal	(A)	–	1,290,638	1,665.0	77.5	738,293	44.3
North Vancouver	(B)	–	70,773	120.0	59.0	44,832	37.4
Oshwa	(A)	–	78,487	129.0	60.8	46,954	36.4
Ottawa-Hull	(A)	–	495,206	637.0	77.7	245,149	38.5
Quebec	(A)	–	296,160	422.0	70.2	166,465	39.5
Red Deer	(A)	–	43,517	35.0	124.3	24,554	70.2
Regina	(A)	–	135,288	161.0	84.0	71,233	44.2
Richmond	–	–	–	–	–	–	–
Saint John	(C)	3	–	105.0	–	31,589	30.1
Saskatoon	(A)	–	130,156	148.0	87.9	74,590	50.4
Sherbrooke	(A)	–	73,461	111.0	66.2	47,483	42.8
St. Catherines	(A)	–	95,690	152.0	63.0	58,173	38.3
St. John's	(A)	–	98,457	–	–	60,100	–
Thunder Bay	–	–	–	–	–	–	–
Toronto (Metro)	(A)	–	1,853,749	2,144.0	86.5	992,523	46.3
Trois Rivieres	(A)	–	69,378	114.0	60.9	47,671	41.8
Vancouver	(A)	–	475,114	539.0	88.2	273,783	50.8
Victoria	(A)	–	160,373	280.0	57.3	99,700	35.6
Windsor	(A)	–	137,121	191.0	71.8	81,659	42.8
Winnipeg	(A)	–	452,954	590.9	76.7	268,848	45.5
CAYMAN ISLANDS [537]	–	–	n.r. [537]	n.r.	–	n.r.	–
Reporting area accounts for –% of the total telephones.Δ							
Reporting area accounts for –% of the total main telephones.Δ							
Reporting area accounts for –% of the total population.Δ							
Cayman Islands	–	–	–	–	–	–	–
DOMINICA [532]	–	–	n.r. [532]	80.0 [673]	–	n.r.	–
Reporting city accounts for –% of the total telephones.Δ							
Reporting city accounts for –% of the total main telephones.Δ							
Reporting city accounts for –% of the total population.Δ							
Roseau	–	–	–	–	–	–	–
DOMINICAN REPUBLIC	–	–	165,253	5,798.8	2.9	105,388	1.8
Reporting cities accout for 99.4% of the total telephones.Δ							
Reporting cities account for 109.3% of the total main telephones.Δ							
Reporting cities account for 36.0% of the total population.Δ							
Barahona	–	–	990	70.0	1.4	836	1.2
Bonao	–	–	1,258	42.0	3.0	1,069	2.6
La Romana	–	–	1,983	62.0	3.2	1,586	2.6

COUNTRY & CITY *	TELEPHONE EXCHANGE GEO. [a] SCOPE	TELEPHONE EXCHANGE NBR.	TOTAL TELE-PHONES	POPULA-TION (000)	TOT. TELS. PER 100 POP.	TOTAL MAIN TELS.	TOT. MAIN TELS./ 100 POP.
World Zone 1 (Continued)							
DOMINICAN REPUBLIC (Continued)							
La Vega	–	–	2,359	52.0	4.5	1,818	3.5
Puerto Plata	–	–	2,131	55.0	3.9	1,653	3.0
San Cristobal	–	–	1,576	52.0	3.0	1,286	2.5
San Fco. Macoris	–	–	1,736	76.0	2.3	1,428	1.9
San Pedro Mac.	–	–	2,227	88.0	2.5	1,757	2.0
Santiago	–	–	19,363	280.0	6.9	13,696	4.9
Santo Domingo	–	–	130,562	1,312.0	10.0	90,027	6.9
GRENADA [14]	–	–	**5,648**	**105.0** [15]	**5.4**	**3,024**	**2.9**
Reporting city accounts for 56.2% of the total telephones.Δ							
Reporting city accounts for 53.8% of the total main telephones.Δ							
Reporting city accounts for 30.5% of the total population.Δ							
St. Georges	(A)	1	3,176	32.0 [114]	9.9	1,628	5.1
JAMAICA	–	–	**119,402**	**2,000.0**	**6.0**	**54,876**	**2.7**
Reporting cities account for 88.7% of the total telephones.Δ							
Reporting cities account for 86.8% of the total main telephones.Δ							
Reporting cities account for 41.2% of the total population.Δ							
Kingston	(D)	12	85,113	700.0	12.2	39,466	5.6
Mandeville	(B)	1	3,981	15.0 [13]	26.5	1,967	13.1
Montego Bay	(D)	2	11,609	60.0	19.4	4,370	7.3
Ocho Rios	(B)	1	3,164	7.0 [17]	45.2	989	14.1
Spanish Town	(B)	1	1,990	41.0	4.9	864	2.1
MONTSERRAT, W. INDIES	–	–	**2,602**	**11.6**	**22.4**	**1,623**	**14.0**
Reporting city accounts for 67.9% of the total telephones.Δ							
Reporting city accounts for –% of the total main telephones.Δ							
Reporting city accounts for 94.8% of the total population.Δ							
Plymouth	(A)	1*	1,767	11.0	16.1	–	–
PUERTO RICO	–	–	**631,458**	**3,106.0**	**20.3**	**401,219**	**12.9**
Reporting cities account for 100.0% of the total telephones.Δ							
Reporting cities account for –% of the total main telephones.Δ							
Reporting cities account for 100.0% of the total population.Δ							
Arecibo	–	–	14,609	91.0	16.1	–	–
Bayamon	–	–	63,304	229.0	27.6	–	–
Carolina	–	–	49,694	207.0	24.0	–	–
Catano	–	–	7,128	16.0	44.6	–	–
Humacao	–	–	9,526	53.0	18.0	–	–
Levittown	–	–	14,428	92.0	15.7	–	–
Mayaquez	–	–	28,635	106.0	27.0	–	–
Other Town	–	–	111,594	1,482.0	7.5	–	–
Ponce	–	–	44,344	205.0	21.6	–	–
San Juan	–	–	264,105	519.0	50.9	–	–
Trujillo Alto	–	–	24,091	106.0	22.7	–	–
ST. KITTS-NEVIS [224]	–	–	n.r. [856]	**67.0** [7]	–	n.r.	–
Reporting cities account for –% of the total telephones.Δ							
Reporting cities account for –% of the total main telephones.Δ							
Reporting cities account for –% of the total population.Δ							
Basseterre (St. Kitts)	–	–	n.r.	n.r.	–	n.r.	–
Charlestown (Nevis)	–	–	n.r.	n.r.	–	n.r.	–
ST. LUCIA [852]	–	–	n.r.	**113.0** [853]	–	n.r.	–
Reporting city accounts for –% of the total telephones.Δ							
Reporting city accounts for –% of the total main telephones.Δ							
Reporting city accounts for –% of the total population.Δ							
Castries	(B) [854]	–	n.r.	45.0 [854]	–	n.r.	–
ST. PIERRE AND MIQUELON	–	–	**2,907**	**6.5**	**44.7**	**2,056**	**31.6**
Reporting cities account for 100.0% of the total telephones.Δ							
Reporting cities account for 88.2% of the total main telephones.Δ							
Reporting cities account for 100.0% of the total population.Δ							
Miquelon	(A)	1	216*	0.6*	36.0	n.a.	–
St. Pierre	(A)	1	2,691	5.9	45.6	1,813	30.7
ST. VINCENT [860]	–	–	n.r. [860]	**117.7** [861]	–	n.r.	–
Reporting cities account for –% of the total telephones.Δ							
Reporting cities account for –% of the total main telephones.Δ							

COUNTRY & CITY *	TELEPHONE EXCHANGE GEO. [a] SCOPE	TELEPHONE EXCHANGE NBR.	TOTAL TELE-PHONES	POPULA-TION (000)	TOT. TELS. PER 100 POP.	TOTAL MAIN TELS.	TOT. MAIN TELS./ 100 POP.
ST. VINCENT (Continued)							
Reporting cities account for 25.3% of the total population.Δ							
Kingston	(A) [863]	–	n.r.	29.8 [863]	–	n.r.	–
TRINIDAD AND TOBAGO [865]	–	–	n.r. [865]	**1,133.0** [2]	–	n.r.	–
Reporting cities account for –% of the total telephones.Δ							
Reporting cities account for –% of the total main telephones.Δ							
Reporting cities account for –% of the total population.Δ							
Port-of-Spain [865]	–	–	n.r.	n.r.	–	n.r.	–
San Fernando [865]	–	–	n.r.	n.r.	–	n.r.	–
TURKS AND CAICOS ISLANDS	–	–	**932**	**7.4**	**12.6**	**598**	**8.1**
Reporting cities account for 96.6% of the total telephones.Δ							
Reporting cities account for 99.0% of the total main telephones.Δ							
Reporting cities account for 74.3% of the total population.Δ							
Grand Turk	(A)	1	673	3.1	21.7	417	13.5
Providenciales	(A)	1	77	1.0	7.7	57	5.7
South Caicos	(A)	1	150	1.4	10.7	118	8.4
UNITED STATES [232]	–	–	**191,595,000**	**228,830.0**	**83.7**	**94,843,000**	**41.5**
Reporting cities account for 47.5% of the total telephones.Δ							
Reporting cities account for 23.5% of the total main telephones.Δ							
Reporting cities account for 46.2% of the total population.Δ							
Abilene, Texas	(A)	2	90,897	106.0	85.4	44,600	42.1
Akron, Ohio	(A)	10	351,414	455.0	77.3	174,793	38.4
Albany, Georgia	(A)	1	83,885	108.0	77.7	38,866	36.0
Albany, N.Y.	(A)	4	168,712	194.0	86.9	75,931	39.1
Albuquerque, N.M.	(A)	14	328,375	495.0	66.3	171,820	34.7
Alexandria, Louisiana	(A)	3	81,011	115.0	70.3	40,691	35.4
Alexandria, Va.	(A)	11	419,927	440.0	95.4	183,287	41.7
Alhambra, California	(A)	5	170,818	207.0	82.5	94,699	45.7
Allentown, Pa.	(A)	3	155,732	160.0	97.3	73,731	46.1
Altoona, Pa.	(A)	1	61,052	76.0	80.9	31,522	41.5
Amarillo, Texas	(A)	6	148,989	152.0	98.1	68,856	45.3
Anaheim, Calif.	(C)	6	237,672	277.0	85.8	117,754	42.5
Anchorage, Alaska	(A)	n.a.	149,548	204.0	73.3	82,487	40.4
Anderson, Ind.	(A)	1	67,139	91.0	73.8	31,747	34.9
Ann Arbor, Mich.	(A)	2	135,999	131.0	103.8	56,557	43.2
Appleton, Wis.	(A)	2	68,698	100.0	68.6	34,642	34.6
Arlington, Mass.	(A)	1	36,754	63.0	58.0	21,965	34.9
Arlington, Texas	(C)	1	121,360	152.0	80.0	60,074	39.5
Arlington Heights, Ill.	(C)	1	115,367	130.0	89.0	51,094	39.3
Arvada, Colorado	(Included in Denver Exchange)						
Asheville, N.C.	(A)	3	80,742	97.0	83.1	39,365	40.6
Athens, Georgia	(A)	1	71,274	79.0	89.9	32,145	40.7
Atlanta, Georgia	(A)	17	954,801	100.0	95.5	403,113	40.3
Augusta, Georgia	(A)	4	166,710	221.0	75.4	74,937	33.9
Aurora, Colorado	(Included in Denver)						
Aurora, Illinois	(C)	2	103,214	122.0	84.8	45,191	37.0
Austin, Texas	(A)	9	427,162	465.0	91.9	204,708	44.0
Bakersfield, Calif.	(A)	10	206,672	281.0	73.5	108,143	38.5
Baltimore, Maryland	(A)	57	1,493,686	1,681.0	88.9	826,069	49.1
Baton Rouge, La.	(A)	9	323,562	388.0	83.3	149,514	38.5
Bayonne, N.J.	(B)	5	52,041	65.0	80.1	29,324	45.1
Baytown, Texas	(A)	2	44,069	57.0	77.4	23,233	40.8
Beaumont, Texas	(A)	4	106,532	133.0	80.1	53,747	40.4
Bellevue, Wash.	(A)	2	93,923	100.0	94.1	49,685	49.7
Berkeley, Calif.	(Included in East Bay Exchange)						
Berwyn, Illinois [634]	(A)	–	46,152	50.0	91.4	25,368	50.7
Bethlehem, Pa.	(A)	1	89,282	92.0	97.1	41,984	45.6
Billings, Montana	(A)	3	87,515	98.0	88.9	42,532	43.4
Biloxi, Miss.	(A)	3	41,692	70.0	59.4	22,248	31.8
Binghamton, N.Y.	(A)	2	87,948	117.0	75.0	47,744	40.8
Birmingham, Alabama	(A)	17	491,757	569.0	86.4	225,713	39.7
Bloomington, Indiana	(A)	1	63,078	95.0	66.7	27,680	29.1
Bloomington, Minn.	(Included in Minneapolis-St. Paul)						
Boise, Idaho	(A)	7	140,377	160.0	87.8	64,669	40.4

Table 14: (continued)
Total and Main Telephones in the World's Principal Cities
Reported data as of January 1, 1981

COUNTRY & CITY •	TELEPHONE EXCHANGE GEO.[8] SCOPE	NBR.	TOTAL TELE-PHONES	POPULA-TION (000)	TOT. TELS. PER 100 POP.	TOTAL MAIN TELS.	TOT. MAIN TELS./ 100 POP.
World Zone 1 (Continued)							
UNITED STATES (Continued)							
Boston, Mass.	(C)	14	544,489	646.0	84.4	250,817	38.8
Boulder, Colo.	(Included in Denver Exchange)						
Bradenton, Fla.	(A)	4	96,413	109.0	88.4	62,737	57.6
Bridgeport, Conn.	(A)	21	189,080	228.0	82.8	93,500	41.0
Bristol, Conn.	(A)	4	47,133	70.0	67.5	27,013	38.6
Brockton, Mass.	(A)	1	78,865	111.0	71.1	42,741	38.5
Brookline, Mass.	(C)	1	88,579	91.0	97.4	42,402	46.6
Brownsville, Texas	(A)	2	52,585	90.0	58.4	28,174	31.3
Buena Park, Calif.	(C)	2	56,804	76.0	74.7	26,825	35.3
Buffalo, N.Y.	(A)	6	395,765	687.0	57.6	240,964	35.1
Burbank, Calif.	(A)	5	132,617	118.0	112.4	62,901	53.3
Cambridge, Mass.	(A)	1	110,188	123.0	89.4	50,033	40.7
Camden, N.J.	(A)	9	76,194	88.0	86.9	31,588	35.9
Canton, Ohio	(A)	4	129,876	177.0	73.3	67,753	38.3
Casper, Wyoming	(A)	2	71,139	72.0	98.4	33,819	47.0
Cedar Rapids, Iowa	(A)	4	134,300	146.0	92.2	61,900	42.4
Champaign, Ill.	(A)	1	118,056	111.0	106.4	50,866	45.8
Charleston, S.C.	(A)	9	220,610	288.0	76.6	97,841	34.0
Charleston, W.Va.	(A)	19	210,761	270.0	78.2	113,120	41.9
Charlotte, N.C.	(C)	10	397,198	365.0	108.8	174,036	47.7
Chattanooga, Tenn.	(A)	9	259,219	345.0	75.2	127,182	36.9
Chesapeake, Va.	(Included in Norfolk, Virginia)						
Chicago, Ill.	(C)	36	2,789,493	3,005.0	92.8	1,308,378	43.5
Chicopee, Mass.	(C)	2	22,632	45.0	50.4	14,067	31.3
Chula Vista, Calif.	(C)	6	123,978	171.0	72.5	68,800	40.2
Cicero, Illinois	(A)	1	52,835	53.0	100.6	26,059	49.2
Cincinnati, Ohio	(A)	24	788,839	864.0	91.3	361,862	41.9
Clearwater, Fla.	(A)	8	242,573	276.0	87.9	155,026	56.2
Cleveland, Ohio	(A)	18	935,962	1,110.0	84.3	440,679	39.7
Cleveland Heights, Ohio	(Included in Cleveland)						
Clifton, New Jersey	(Included in Passaic Exchange)						
Colo. Springs, Colo.	(A)	17	243,113	316.0	77.0	119,099	37.7
Columbia, Missouri	(A)	4	80,209	98.0	81.6	39,565	40.4
Columbia, S.C.	(A)	9	301,839	340.0	88.8	131,238	38.6
Columbus, Georgia	(A)	2	145,538	195.0	74.6	66,812	34.3
Columbus, Ohio	(C)	10	492,509	493.0	99.9	215,461	43.7
Compton, Calif.	(A)	8	276,714	348.0	79.5	143,790	41.3
Concord, Calif.	(A)	3	106,565	149.0	71.7	58,891	39.5
Corpus Christi, Texas	(A)	3	191,671	240.0	79.9	90,242	37.6
Costa Mesa, Calif.	(Included in Newport Beach, California)						
Council Bluffs, Iowa	(A)	2	53,700	66.0	81.1	26,400	40.0
Covina, Calif.	(A)	n.a.	337,889	418.0	80.8	164,885	39.4
Covington, Kentucky	(A)	4	126,766	192.0	66.1	68,214	35.5
Cranston, R.I.	(Included in Providence, Rhode Island)						
Dallas, Texas	(C)	15	981,372	1,137.0	86.3	461,092	40.6
Daly City, Calif.	(Included in San Francisco)						
Danbury, Conn.	(A)	9	86,509	93.0	93.2	42,672	45.9
Danville, Va.	(A)	1	43,088	84.0	51.3	23,767	28.3
Davenport, Iowa	(A)	5	125,900	144.0	87.4	59,700	41.5
Daytona, Fla.	(A)	4	133,597	176.0	76.1	72,883	41.4
UNITED STATES (Continued)							
Dayton, Ohio	(A)	8	384,549	442.0	86.9	182,611	41.3
Dearborn, Mich.	(Included in Detroit, Michigan)						
Dearborn Heights, Mich.	(Included in Detroit, Michigan)						
Decatur, Illinois	(A)	2	101,262	100.0	101.6	44,738	44.7
Denton, Texas	(A)	1	50,707	59.0	85.9	25,439	43.1
Denver, Colorado	(A)	49	1,431,308	1,598.0	89.6	711,274	44.5
Des Moines, Iowa	(A)	7	291,500	317.0	92.0	123,700	39.0
Des Plaines, Illinois	(A)	1	97,683	117.0	83.4	48,399	41.4
Detroit, Michigan	(A)	21	1,526,242	1,486.0	102.7	707,021	47.6
Downey, Calif.	(A)	n.a.	296,443	356.0	83.3	143,293	40.3
Dubuque, Iowa	(A)	2	59,600	79.0	75.9	29,900	37.8
Duluth, Minnesota	(A)	7	96,200	124.0	77.8	50,600	40.8
Durham, N.C.	(A)	8	129,233	155.0	83.6	71,190	45.9
East Bay Exchange, Calif.	(A)	19	614,838	670.0	91.7	331,696	49.5
East Hartford, Conn.	(Included in Hartford Exchange)						
East Lansing, Mich.	(Included in Lansing, Michigan)						
East Orange, N.J.	(Included in Orange Exchange)						
East St. Louis, Ill.	(A)	2	67,041	101.0	66.1	29,218	28.9
Eau Claire, Wisconsin	(A)	1	56,615	71.0	80.2	27,860	39.2
El Cajon, Calif.	(C)	4	149,600	183.0	81.7	81,651	44.6
El Monte, Calif.	(A)	3	74,694	101.0	74.0	41,203	40.8
El Paso, Texas	(A)	12	285,827	437.0	65.5	148,287	33.9
Elgin, Illinois	(A)	1	74,384	73.0	101.6	33,744	46.2
Elizabeth, N.J.	(A)	9	100,191	116.0	86.4	50,604	43.6
Elyria, Ohio	(A)	5	57,111	61.0	94.0	35,298	57.9
Enid, Oklahoma	(A)	1	49,737	50.0	98.8	24,018	48.0
Erie, Pennsylvania	(A)	3	149,136	185.0	80.6	80,402	43.5
Escondido, Calif.	(A)	4	95,545	93.0	102.7	52,361	56.3
Euclide, Ohio	(Included in Cleveland)						
Eugene-Springfield, Ore.	(A)	3	159,445	247.0	64.7	101,398	41.1
Evanston, Illinois	(B)	1	87,982	72.0	121.9	38,301	53.2
Evansville, Indiana	(A)	2	134,905	155.0	87.0	63,675	41.1
Everett, Wash.	(A)	15	75,803	96.0	79.0	45,482	47.4
Fairbanks, Alaska	(A)	n.a.	38,889	54.0	72.0	15,283	28.3
Fairfield, Calif.[184]	(A)	4	57,540	83.0	69.1	28,083	33.8
Fairfield, Conn.	(C)	3	32,947	35.0	93.9	15,831	45.2
Fall River, Mass.	(A)	1	85,863	121.0	70.7	50,970	42.1
Fargo, N.D.-Moorehead, Minn.	(A)	6	113,000	124.0	91.5	49,800	40.2
Farmington, Michigan	(C)	2	71,700	93.0	77.4	36,170	38.9
Farmington Hills, Michigan	(Included in Farmington, Michigan)						
Fayetteville, N.C.	(A)	7	158,787	247.0	64.2	75,726	30.7
Flint, Michigan	(A)	6	232,466	242.0	95.9	110,665	45.7
Florissant, Mo.	(C)	1	64,937	103.0	63.1	34,020	33.0
Ft. Lauderdale, Fla.	(A)	8	463,653	453.0	102.3	239,821	52.9
Fort Collins, Colo.	(A)	3	73,841	102.0	72.3	38,440	37.7
Ft. Myers, Fla.	(A)	12	85,171	99.0	86.5	49,870	50.4
Fort Smith, Arkansas	(A)	6	64,750	84.0	76.9	34,462	41.0
Fort Wayne, Indiana	(A)	1	183,228	254.0	72.3	92,277	36.3
Fort Worth, Texas	(C)	7	368,250	396.0	93.1	171,888	43.4
Fountain Valley, Calif.	(Included in Huntington Beach, Calif.)						
Framingham, Mass.	(A)	1	68,093	77.0	88.6	34,871	45.3
Fremont City, Calif.[347]	(A)	4	147,997	225.0	65.8	82,268	36.6

COUNTRY & CITY *	TELEPHONE EXCHANGE GEO. [8] SCOPE	TELEPHONE EXCHANGE NBR.	TOTAL TELE-PHONES	POPULA-TION (000)	TOT. TELS. PER 100 POP.	TOTAL MAIN TELS.	TOT. MAIN TELS./ 100 POP.
World Zone 1 (Continued)							
UNITED STATES (Continued)							
Fresno, Calif.	(A)	6	295,137	370.0	79.9	152,669	41.3
Fullerton, Calif.	(C)	3	105,678	89.0	118.7	45,543	51.2
Gadsden, Alabama	(A)	3	57,851	85.0	68.0	30,892	36.3
Gainesville, Fla.	(A)	1	105,597	122.0	86.8	49,595	40.7
Galveston, Texas	(A)	3	58,962	74.0	79.3	29,123	39.4
Garden Grove, Calif.	(C)	1	90,630	119.0	76.2	49,933	42.0
Garland, Texas	(C)	3	101,296	127.0	79.9	50,325	39.6
Gary, Indiana	(A)	4	96,202	184.0	52.4	36,526	19.9
Gastonia, N.C.	(A)	2	71,841	87.0	81.4	34,033	39.1
Glendale, Arizona	(Included in Phoenix Exchange)						
Glendale, Calif.	(A)	3	112,938	109.0	103.6	61,437	56.4
Grand Prairie, Texas	(C)	1	72,219	78.0	92.6	30,324	38.9
Grand Rapids, Mich.	(A)	9	323,980	378.0	85.6	160,676	42.5
Great Falls, Montana	(A)	3	62,442	75.0	83.6	30,367	40.5
Greeley, Colorado	(A)	2	56,017	72.0	77.8	28,032	38.9
Green Bay, Wisconsin	(A)	4	104,087	148.0	70.4	53,835	36.4
Greensboro, N.C.	(A)	7	217,805	223.0	97.9	95,297	42.7
Greenville, S.C.	(A)	7	190,500	247.0	77.1	89,369	36.2
Gulfport, Miss.	(A)	3	62,105	97.0	64.0	31,441	32.4
Haddonfield, N.J.	(C)	5	71,567	60.0	118.3	32,707	54.5
Hamden, Conn.	(Included in New Haven Exchange)						
Hamilton, Ohio	(A)	–	93,695	114.0	82.4	47,885	42.0
Hammond, Indiana	(A)	4	76,921	107.0	72.0	35,064	32.8
Hampton, Va.	(Included in Newport News, Virginia)						
Harrisburg, Pa.	(A)	7	219,230	186.0	118.1	93,145	50.1
Hartford, Conn.	(A)	38	338,002	345.0	98.0	144,795	42.0
Hawthorne, Calif.	(A)	2	92,146	87.0	105.9	39,607	45.5
Hayward, Calif.	(A)	4	158,159	222.0	71.2	88,954	40.1
Hialeah, Fla.	(Included in Miami Exchange)						
High Point, N.C.	(A)	4	82,915	110.0	75.3	45,330	41.2
Hollywood, Fla.	(A)	4	253,795	293.0	86.5	136,391	46.5
Honolulu, Hawaii	(A)	1	398,105	369.0	107.9	215,291	58.3
Houma, Louisiana	(A)	1	56,343	86.0	65.2	29,246	34.0
Houston, Texas	(A)	17	1,514,816	1,780.0	85.1	710,742	39.9
Huntington, W. Va.	(A)	8	96,475	153.0	63.1	55,272	36.1
Huntington Beach, Calif.	(C)	–	160,223	170.0	94.2	81,968	48.2
Huntsville, Alabama	(A)	4	154,152	192.0	80.1	65,360	34.0
Independence, Mo.	(C)	1	65,203	82.0	79.1	35,536	43.3
Indianapolis, Ind.	(C)	15	675,936	761.0	88.8	277,430	36.5
Inglewood, Calif.	(A)	3	146,915	140.0	104.9	70,932	50.7
Irvine, Calif.	(Included in Newport Beach, Calif.)						
Irving, Texas	(A)	3	93,596	124.0	75.5	47,466	38.3
Jackson, Miss.	(A)	7	227,173	279.0	81.3	100,356	36.0
Jacksonville, Fla.	(D)	12	448,529	565.0	79.4	205,422	36.4
Janesville, Wis.	(A)	1	45,569	61.0	75.3	24,203	39.7
Jersey City, N.J.	(A)	16	190,935	266.0	71.9	102,973	38.7
Joliet, Illinois	(A)	1	105,637	134.0	78.9	47,494	35.4
Kalamazoo, Mich.	(A)	4	163,912	176.0	93.0	75,114	42.7
Kansas City, Kans.	(C)	6	176,151	191.0	92.0	81,596	42.7
Kansas City, Mo.	(C)	4	344,600	288.0	119.5	135,866	47.2
Keansburg, N.J.	(C)	2	20,733	36.0	57.3	12,800	35.6
Kenner, La.	(A)	3	85,419	119.0	71.7	44,688	37.6
Kenosha, Wisconsin	(A)	2	69,914	94.0	74.2	36,376	38.7
Kettering, Ohio	(Included in Dayton, Ohio)						
Knoxville, Tenn.	(A)	5	233,837	299.0	78.2	116,537	39.0
Lafayette, La.	(A)	2	107,257	118.0	90.8	54,771	46.4
Lake Charles, La.	(A)	4	94,365	116.0	81.3	48,120	41.5
Lakeland, Fla.	(A)	4	94,454	130.0	72.7	57,703	44.4
Lakewood, Colo.	(Included in Denver Exchange)						
Lakewood, Ohio	(Included in Cleveland, Ohio)						
La Mesa, Calif.	(C)	3	131,118	172.0	76.2	72,560	42.2
Lancaster, Pa.	(A)	3	115,432	114.0	101.4	54,019	47.4
Lansing, Mich.	(A)	7	239,752	248.0	96.5	99,375	40.1
Laredo, Texas	(A)	1	54,628	99.0	55.2	28,279	28.6
Las Vegas, Nevada	(A)	–	422,720	366.0	115.5	183,415	50.1
Lawrence, Kansas	(A)	1	51,205	56.0	90.8	24,202	43.2
Lawrence, Mass.	(A)	1	85,808	127.0	67.5	48,228	38.0
Lawton, Oklahoma	(A)	1	64,462	112.0	57.3	33,648	30.0
Lexington, Kentucky	(A)	6	183,179	203.0	90.2	103,670	51.1
Lima, Ohio	(A)	2	60,776	95.0	63.9	34,273	36.1
Lincoln, Nebraska	(A)	5	169,400	193.0	87.8	78,200	40.5
Little Rock, Arkansas	(A)	6	282,180	290.0	97.4	138,465	47.7
Livonia, Michigan	(A)	2	123,037	166.0	74.0	61,115	36.8
Long Beach, Calif.	(C)	–	387,381	443.0	87.4	211,834	47.8
Longview, Texas	(A)	4	75,560	102.0	74.0	37,583	36.8
Lorain, Ohio	(B)	6	53,468	85.0	63.0	34,917	41.1
Los Angeles, Calif.	(A)	50	1,570,724	1,706.0	92.1	847,138	49.7
Louisville, Kentucky	(A)	16	589,094	686.0	85.9	289,999	42.3
Lowell, Mass.	(A)	1	111,363	174.0	64.1	60,350	34.7
Lubbock, Texas	(A)	3	174,110	191.0	91.0	76,282	39.9
Lynchburg, Va.	(A)	6	87,789	119.0	73.6	45,209	38.0
Lynn, Mass.	(A)	1	79,839	109.0	73.0	42,667	39.1
Macon, Georgia	(A)	3	124,341	155.0	80.5	59,805	38.6
Madison, Wisconsin	(A)	5	202,110	210.0	96.2	95,406	45.4
Malden, Mass.	(C)	2	40,017	55.0	72.5	24,299	44.2
Manchester, N.H.	(A)	1	86,123	99.0	86.7	45,012	45.5
Mansfield, Ohio	(A)	5	65,486	119.0	55.2	37,314	31.4
Medford, Mass.	(C)	4	35,189	62.0	56.7	22,079	35.6
Memphis, Tenn.	(A)	13	645,407	808.0	79.9	311,649	38.6
Mercerville, N.J.	(C)	5	54,554	50.0	109.9	28,929	57.9
Meriden, Conn.	(A)	4	43,025	58.0	74.3	23,865	41.1
Meridian, Miss.	(A)	4	48,148	59.0	82.2	24,625	41.7
Mesa, Arizona	(Included in Phoenix Exchange)						
Metuchen, N.J.	(C)	6	62,958	86.0	72.9	29,878	34.7
Miami, Florida	(A)	23	1,204,822	1,428.0	84.4	563,649	39.5
Miami Beach, Florida	(Included in Miami Exchange)						
Midland, Texas	(C)	3	87,190	81.0	107.8	37,149	45.9
Middletown, Ohio	(A)	1	47,117	67.0	69.9	24,405	36.4
Midwest City, Okla.	(Included in Oklahoma City)						
Milford, Conn.	(A)	4	42,921	55.0	77.6	22,401	40.7
Milton, Mass.	(C)	2	37,001	54.0	68.1	18,538	34.3
Milwaukee, Wisconsin	(A)	14	904,144	1,354.0	66.8	466,033	34.4
Minneapolis-St. Paul, Minn.	(A)	53	1,706,800	1,922.0	88.8	799,300	41.6
Mobile, Alabama	(A)	10	259,895	360.0	72.2	130,925	36.4
Modesto, Calif.	(A)	5	139,701	193.0	72.3	74,326	38.5
Monroe, Louisiana	(A)	3	102,600	136.0	75.4	50,529	37.2
Montebello, Calif.	(A)	2	81,100	81.0	100.1	40,728	50.3
Montgomery, Alabama	(A)	4	168,594	192.0	87.9	80,497	41.9
Mt. Prospect, Ill.	(Included in Arlington Heights Exchange)						
Mt. Vernon, N.Y.	(A)	1	117,670	159.0	74.2	69,962	44.0
Mountain View, Calif.	(C)	2	83,687	92.0	90.6	41,465	45.1
Muncie, Indiana	(A)	1	80,991	107.0	75.5	37,760	35.3
Muskegon, Mich.	(A)	9	89,118	132.0	67.3	51,036	38.7
Napa, Calif.	(A)	2	57,335	76.0	75.4	30,884	40.6
Nashville, Tenn.	(A)	12	431,512	510.0	84.6	203,855	40.0
Nashua, N.H.	(A)	1	77,091	88.0	87.2	35,676	40.5
National City, Calif.	(C)	2	61,767	94.0	65.7	34,246	36.4
New Bedford, Mass.	(A)	1	98,377	148.0	66.7	58,536	39.6

Table 14: (continued)
Total and Main Telephones in the World's Principal Cities
Reported data as of January 1, 1981

COUNTRY & CITY*	TELEPHONE EXCHANGE GEO.† SCOPE	TELEPHONE EXCHANGE NBR.	TOTAL TELE-PHONES	POPULATION (000)	TOT. TELS. PER 100 POP.	TOTAL MAIN TELS.	TOT. MAIN TELS./ 100 POP.
World Zone 1 (Continued)							
UNITED STATES (Continued)							
New Britain, Conn.	(A)	6	63,133	88.0	71.7	37,203	42.3
New Haven, Conn.	(A)	30	285,703	316.0	90.5	134,046	42.4
New Iberia, La.	(A)	1	37,337	54.0	69.8	20,222	37.4
New Orleans, La.	(A)	17	798,830	994.0	80.4	400,604	40.3
New Rochelle, N.Y.	(D)	1	60,380	71.0	85.4	34,525	48.6
New York, New York	(B)	69	5,808,145	7,067.0	82.1	3,207,274	45.4
Newark, New Jersey	(A)	34	341,698	416.0	82.0	154,340	37.1
Newport Beach, Calif.	(C)	3	136,377	122.0	111.8	68,500	56.1
Newport News, Metro Area, Va.	(C)	8	211,958	325.0	65.2	111,622	34.3
Newton, Mass.	(D)	3	80,653	97.0	82.6	40,195	41.4
Niagara Falls, N.Y.	(A)	3	60,896	98.0	62.4	35,486	36.2
Norfolk Metro Area, Va.	(C)	15	499,800	726.0	68.8	255,101	35.1
Norman, Okla.	(Included in Oklahoma City)						
North Little Rock, Ark.	(Included in Little Rock Exchange)						
Norwalk, Conn.	(B)	7	75,576	76.0	99.4	35,845	47.2
Oak Lawn, Ill.	(A)	2	132,627	179.0	74.2	65,246	36.5
Oak Park, Ill.	(B)	1	57,695	50.0	115.4	27,184	54.4
Oakland, Calif.	(Included in East Bay Exchange)						
Oceanside, Calif.	(C)	5	83,556	134.0	62.4	43,720	32.6
Odessa, Texas	(A)	2	100,776	104.0	96.8	46,555	44.8
Ogden, Utah	(A)	11	94,809	152.0	62.5	47,856	31.5
Oklahoma City, Okla.	(C)	7	705,007	776.0	90.9	331,271	42.7
Omaha, Nebraska	(A)	11	516,400	560.0	92.1	231,000	41.3
Ontario, Calif.	(A)	–	151,694	154.0	98.5	76,742	49.8
Orange, Calif.	(C)	4	139,745	155.0	90.2	66,771	43.1
Orange, New Jersey	(A)	11	141,985	147.0	96.6	69,611	47.4
Orlando, Florida	(A)	6	291,158	367.0	79.4	140,327	38.2
Overland Park, Kansas [33]	(C)	3	148,318	147.0	100.9	64,355	43.8
Owensboro, Kentucky	(A)	1	51,931	67.0	77.2	27,293	40.7
Oxnard, Calif.	(A)	–	137,551	185.0	74.4	71,290	38.5
Palo Alto, Calif.	(A)	5	167,104	155.0	107.9	69,895	45.1
Parkersburg, W. Va.	(A)	7	63,093	99.0	64.0	35,516	35.9
Parma, Ohio	(A)	1	74,565	114.0	65.4	43,112	37.8
Pasadena, Calif.	(A)	3	211,670	198.0	106.9	101,137	51.1
Pasadena, Texas	(Included in Houston, Texas)						
Passaic, New Jersey	(A)	12	148,287	178.0	83.1	84,295	47.4
Paterson, New Jersey	(A)	14	133,614	178.0	75.0	67,505	37.9
Pawtucket, R.I.	(A)	1	96,166	140.0	68.7	57,464	41.0
Pensacola, Florida	(A)	5	165,226	236.0	70.1	78,691	33.3
Peoria, Ill.	(A)	5	208,853	197.0	105.8	87,444	44.4
Petersburg, Va.	(A)	3	62,743	97.0	64.7	34,511	35.6
Philadelphia, Pa.	(B)	25	1,725,286	1,680.0	102.7	743,382	44.2
Phoenix, Arizona	(A)	51	1,285,852	1,487.0	86.5	587,451	39.5
Pine Bluff, Arkansas	(A)	3	54,655	82.0	66.9	29,277	35.7
Pittsburg, Pa.	(A)	21	824,599	852.0	96.8	377,615	44.3
Pittsfield, Mass.	(A)	2	47,622	61.0	78.4	23,810	39.0
Plano, Texas	(C)	2	63,251	81.0	77.9	31,487	38.9
Point Pleasant, N.J.	(C)	6	71,552	78.0	91.8	41,353	53.0
Pomona, Calif.	(A)	–	241,277	227.0	106.3	116,728	51.4
Pompano Beach, Fla.	(A)	3	196,608	220.0	89.2	106,882	48.6
Pontiac, Michigan	(A)	4	132,832	166.0	80.1	61,083	36.8
Port Arthur, Texas	(A)	3	51,624	86.0	67.0	31,792	37.0
Portland, Maine	(C)	1	58,436	60.0	98.0	27,612	46.0
Portland, Oregon	(A)	9	484,436	587.0	82.5	310,589	52.9
Portsmouth, Va.	(Included in Norfolk, Virginia)						
Provo-Orem, Utah	(A)	2	81,639	144.0	56.7	43,767	28.3
Providence, R.I.	(A)	3	291,520	345.0	84.4	147,840	42.9
Pueblo, Colorado	(A)	5	86,138	124.0	69.5	47,781	38.5
Quincy, Mass.	(A)	3	69,661	86.0	81.4	39,240	45.6
Racine, Wisconsin	(A)	3	104,180	129.0	81.0	51,619	40.0
Raleigh, N.C.	(A)	6	227,955	229.0	99.5	96,590	42.2
Reading, Pa.	(A)	5	159,670	185.0	86.3	78,177	42.3
Redondo, Calif.	(C)	n.a.	221,099	254.0	87.0	117,196	46.1
Redwood City, Calif.	(A)	3	68,201	81.0	83.9	37,152	45.9
Reno, Nevada	(A)	9	179,231	185.0	96.9	86,405	46.7
Richardson, Texas	(C)	1	110,262	101.0	109.1	43,476	43.0
Richmond, Calif.	(A)	2	101,125	141.0	71.7	56,087	39.8
Richmond, Va.	(A)	13	408,020	515.0	79.5	197,299	38.3
Riverside, Calif.	(C)	7	195,583	248.0	78.9	97,450	39.3
Roanoke, Va.	(A)	5	141,125	210.0	67.2	75,454	35.9
Rochester, Minn.	(A)	1	76,300	77.0	98.7	31,400	40.8
Rochester, N.Y.	(A)	11	338,188	532.0	63.6	181,902	34.2
Rockford, Ill.	(A)	3	205,831	208.0	99.0	87,761	42.2
Rock Island, Ill.	(A)	6	61,650	59.0	104.6	26,872	45.5
Rome, Georgia	(A)	1	59,559	78.0	76.8	30,263	38.8
Roseville, Mich.	(A)	2	160,340	230.0	69.8	88,870	38.6
Royal Oak, Michigan	(A)	5	214,552	254.0	84.4	113,163	44.6
Sacramento, Calif.	(C)	17	597,702	696.0	85.9	294,384	42.3
Saginaw, Michigan	(A)	5	140,201	174.0	80.6	69,602	40.0
St. Clair Shores, Mich.	(Included in Roseville, Michigan Exchange)						
St. Joseph, Missouri	(A)	1	67,597	79.0	86.0	35,062	44.4
St. Louis, Missouri	(C)	10	591,589	630.0	93.9	277,003	44.0
St. Paul, Minnesota	(Included in Minneapolis-St. Paul, Minnesota)						
St. Petersburg, Fla.	(A)	9	324,131	393.0	82.6	212,873	54.2
Salem, Oregon	(A)	2	124,209	177.0	70.2	79,532	44.9
Salinas, Calif.	(A)	6	78,630	106.0	74.5	41,636	39.3
Salt Lake City, Utah	(A)	13	553,272	700.0	79.1	255,356	36.5
San Angelo, Texas	(A)	3	69,227	86.0	80.2	34,960	40.7
San Antonio, Texas	(C)	7	523,534	678.0	77.2	263,275	38.8
San Bernardino, Calif.	(C)	–	113,605	149.0	76.2	56,225	37.7
San Diego, Calif.	(A)	15	557,547	609.0	91.6	275,919	45.3
San Francisco, Calif.	(A)	35	888,587	729.0	120.2	439,319	59.4
San Jose, Calif.	(A)	21	698,542	656.0	80.7	251,635	40.6
San Mateo, Calif.	(A)	4	141,483	157.0	89.9	75,244	47.9
Santa Ana, Calif.	(C)	12	565,170	494.0	114.4	262,759	53.2
Santa Barbara, Calif.	(A)	–	156,964	152.0	103.3	78,392	51.6
Santa Clara, Calif.	(Included in San Jose, California)						
Santa Monica, Calif.	(A)	n.a.	278,160	246.0	113.1	142,627	58.0
Santa Rosa, Calif.	(A)	4	120,107	145.0	82.8	65,103	44.9
Sarasota, Fla.	(A)	7	146,828	133.0	109.6	86,820	65.3
Savannah, Georgia	(A)	6	159,256	214.0	74.5	76,984	36.0
Schaumburg, Illinois	(A)	2	125,640	146.0	86.0	54,484	37.3

COUNTRY & CITY •	TELEPHONE EXCHANGE GEO. SCOPE [8]	NBR.	TOTAL TELE-PHONES	POPULA-TION (000)	TOT. TELS. PER 100 POP.	TOTAL MAIN TELS.	TOT. MAIN TELS./ 100 POP.
World Zone 1 (Continued)							
UNITED STATES (Continued)							
Schenectady, N.Y.	(A)	4	131,574	171.0	76.9	74,446	43.5
Scottsdale, Arizona	(Included in Phoenix Exchange)						
Scranton, Pa.	(A)	1	95,440	106.0	90.0	48,954	46.2
Seattle, Washington	(A)	12	633,718	680.0	93.2	426,288	62.7
Shreveport, La.	(A)	6	234,395	307.0	76.3	115,498	37.6
Simi, California	(A)	1	55,903	93.0	60.1	29,027	31.2
Sioux City, Iowa	(A)	3	78,800	100.0	78.8	37,300	37.3
Sioux Falls, S.D.	(A)	1	87,500	93.0	94.4	39,900	42.9
Skokie, Illinois	(A)	2	158,645	119.0	133.1	63,012	53.0
Somerville, Mass.	(C)	3	50,363	89.0	56.7	33,805	38.0
South Bend, Ind.	(A)	4	147,909	176.0	83.9	67,035	38.1
Southfield, Mich.	(C)	2	127,516	77.0	165.9	53,186	69.1
South San Francisco, Calif.	(A)	4	89,907	109.0	82.5	45,492	41.7
Spartanburg, S.C.	(A)	5	100,176	144.0	69.6	48,754	33.9
Spokane, Washington	(A)	8	229,981	325.0	70.9	139,334	42.9
Springfield, Ill.	(A)	3	163,576	135.0	120.9	63,796	47.3
Springfield, Mass.	(A)	1	161,622	220.0	73.6	86,345	39.2
Springfield, Missouri	(A)	3	137,300	152.0	90.0	69,892	46.0
Springfield, Ohio	(A)	2	76,866	112.0	68.6	41,066	36.7
Stamford, Connecticut	(A)	14	123,588	103.0	120.5	53,219	51.7
Sterling Heights, Mich.	(Included in Warren, Michigan)						
Stockton, Calif.	(A)	6	166,500	248.0	67.1	90,315	36.4
Stratford, Conn.	(Included in Bridgeport Exchange)						
Sunnyvale, Calif.	(C)	5	131,813	123.0	107.2	52,720	42.9
Syracuse, New York	(A)	8	242,942	339.0	71.7	131,225	38.7
Tacoma, Washington	(A)	9	252,733	320.0	79.1	151,451	47.3
Tallahassee, Fla.	(A)	6	125,068	147.0	85.3	72,921	49.6
Tampa, Florida	(A)	23	459,459	600.0	76.5	279,440	46.6
Taunton, Mass.	(A)	1	39,765	57.0	69.4	22,299	39.1
Taylor, Michigan	(Included in Detroit, Michigan)						
Tempe, Arizona	(Included in Phoenix, Arizona)						
Terre Haute, Ind.	(A)	1	82,253	111.0	74.2	39,528	35.6
Texarkana, Texas	(A)	1	64,913	84.0	77.5	32,294	38.4
Thousand Oaks, Calif.	(C)	–	83,159	94.0	84.5	38,088	40.5
Toledo, Ohio	(A)	8	324,482	425.0	76.4	162,771	38.3
Toms River, N.J.	(C)	7	83,315	102.0	81.7	46,772	45.9
Topeka, Kansas	(C)	4	152,152	148.0	102.5	67,931	45.9
Torrance, Calif.	(C)	2	39,782	42.0	94.7	18,899	45.0
Trenton, New Jersey	(A)	10	108,923	139.0	78.4	46,480	33.4
Troy, Michigan	(D)	2	30,061	24.0	126.2	14,775	61.6
Troy, New York	(A)	4	77,689	139.0	56.1	50,932	36.6
Tucson, Arizona	(A)	20	409,873	512.0	80.0	218,656	42.7
Tulsa, Oklahoma	(C)	9	449,388	519.0	86.5	216,880	41.8
Tuscaloosa, Alabama	(A)	3	94,927	137.0	69.5	48,600	35.5
Tyler, Texas	(A)	3	86,276	111.0	77.7	42,024	37.9
Union City, New Jersey	(A)	12	139,194	175.0	79.6	79,138	45.2
Unionville, N.J.	(C)	4	59,697	53.0	113.7	30,565	57.7
Utica, New York	(A)	3	88,960	141.0	63.1	52,628	37.3
Valdosta, Georgia	(A)	1	45,566	60.0	76.1	21,703	36.2
Vallejo, Calif.	(A)	2	70,555	96.0	73.5	36,214	37.7
Ventura, Calif.	(C)	3	66,506	69.0	96.4	35,663	51.7
Vineland, New Jersey	(C)	4	51,871	67.0	77.3	26,390	39.4
Virginia Beach, Va.	(Included in Norfolk, Virginia)						
Visalia, Calif.	(A)	4	61,538	77.0	79.9	32,111	41.7
Waco, Texas	(A)	3	132,071	175.0	75.5	67,332	38.5
Walnut Creek, Calif.	(A)	3	97,877	112.0	87.4	51,244	45.8
Waltham, Mass.	(C)	2	76,306	80.0	95.7	32,326	40.4
Warren, Mich.	(A)	3	182,072	228.0	79.7	83,066	36.4
Warren, Ohio	(A)	7	79,681	126.0	63.2	43,205	34.3
Warwick, R.I.	(A)	3	42,094	61.0	69.1	23,042	37.8
Washington, D.C.	(B)	14	1,103,257	639.0	172.7	363,455	56.9
Waterbury, Conn.	(A)	11	91,695	109.0	84.3	47,974	44.0
Waterloo, Iowa	(A)	2	79,500	95.0	83.9	37,200	39.2
Waukegan, Ill.	(A)	2	110,091	125.0	87.9	45,757	36.6
Waukesha, Wis.	(A)	1	54,518	63.0	87.1	26,684	42.4
Wauwatosa, Wis.	(Included in Milwaukee Exchange)						
Wayne, Michigan	(C)	2	79,571	112.0	71.1	40,250	35.9
Weirton, W. Va.	(A)	8	46,358	72.0	64.8	25,533	35.5
West Allis, Wis.	(Included in Milwaukee Exchange)						
West Hartford, Conn.	(Included in Hartford Exchange)						
West Haven, Conn.	(Included in New Haven Exchange)						
Westland, Michigan	(Included in Wayne, Michigan Exchange)						
Westminster, Calif.	(C)	–	103,098	141.0	73.1	49,408	35.0
West Palm Beach, Fla.	(A)	7	350,219	366.0	95.8	182,718	49.9
Weymouth, Mass.	(A)	1	36,925	56.0	65.5	22,163	39.6
Wheeling, W. Va.	(A)	5	67,762	103.0	65.8	37,328	36.2
White Plains, N.Y.	(A)	1	100,289	99.0	101.2	37,683	38.0
Whittier, Calif.	(A)	n.a.	216,122	282.0	76.6	109,366	38.8
Wichita, Kansas	(C)	4	260,334	389.0	66.9	117,096	30.1
Wichita Falls, Texas	(C)	4	87,552	123.0	71.1	42,903	34.9
Wilkes-Barre, Pa.	(A)	2	74,290	87.0	85.6	38,403	44.1
Wilmington, Del.	(A)	4	212,615	223.0	95.3	86,553	38.8
Wilmington, N.C.	(A)	3	83,198	100.0	83.1	39,344	39.3
Winston-Salem, N.C.	(C)	7	188,920	215.0	87.8	83,468	38.8
Winter Park, Fla.	(A)	4	166,411	190.0	87.5	88,691	46.7
Woodbridge, N.J.	(C)	3	32,529	36.0	89.7	16,722	46.5
Worcester, Mass.	(A)	1	146,588	200.0	73.4	78,643	39.3
Wyoming, Michigan	(Included in Grand Rapids, Michigan)						
Yonkers, New York	(D)	1	83,655	128.0	65.1	52,984	41.4
York, Pennsylvania	(A)	2	107,810	121.0	89.1	56,544	46.7
Youngstown, Ohio	(A)	7	191,052	264.0	72.3	100,549	38.1
VIRGIN ISLANDS, BRITISH [851]	–	–	n.r. [851]	**11.2** [849]	–	n.r.	–
Reporting city accounts for –% of the total telephones.△							
Reporting city accounts for –% of the total main telephones.△							
Reporting city accounts for –% of the total population.△							
Roadtown	(A) [850]	–	n.r.	3.5 [850]	–	n.r.	–
VIRGIN ISLANDS	–	–	**41,175**	**104.1**	**39.6**	**26,276**	**25.2**
Reporting cities account for 100.0% of the total telephones.△							
Reporting cities account for 100.0% of the total main telephones.△							
Reporting cities account for 100.0% of the total population.△							
St. Croix Island	–	–	18,448	52.9	34.9	12,053	22.8
St. John Island	–	–	917	2.5	36.7	665	26.6
St. Thomas Island	–	–	21,810	48.7	44.8	13,546	27.8

Summary

Data for reporting cities in World Zone 1 account for 47.9% of the total telephones; 46.1% of the total main telephones and 46.1% of the total population for the Zone.

World Zone 2

ALGERIA	–	–	**484,973**	**19,320.0**	**2.5**	**312,392**	**1.6**
Reporting cities account for 83.9% of the total telephones.△							
Reporting cities account for –% of the total main telephones.△							
Reporting cities account for 25.4% of the total population.△							
Alger	–	–	161,879	1,800.0 [33]	9.0	–	–
Annaba	–	–	22,023	340.0 [33]	6.5	–	–
Batna	–	–	10,675	120.0 [33]	8.9	–	–
Bechar	–	–	3,818	148.1 [33]	2.6	–	–
Bejaia	–	–	5,476	108.0 [33]	5.1	–	–

Table 14: (continued)
Total and Main Telephones in the World's Principal Cities
Reported data as of January 1, 1981

COUNTRY & CITY *	TELEPHONE EXCHANGE GEO. SCOPE	TELEPHONE EXCHANGE NBR.	TOTAL TELE PHONES	POPULATION (000)	TOT. TELS. PER 100 POP.	TOTAL MAIN TELS.	TOT. MAIN TELS./ 100 POP.
World Zone 2 (Continued)							
ALGERIA (Continued)							
Biskra	—	—	7,703	n.a. [11]	—	—	—
Blida	—	—	9,114	162.0 [11]	5.6	—	—
Bouira	—	—	3,531	n.a. [11]	—	—	—
Constantine	—	—	26,075	430.0 [11]	6.1	—	—
Djelfa	—	—	4,763	n.a.	—	—	—
El Asnam	—	—	1,656	118.0 [11]	1.4	—	—
Guelma	—	—	4,802	n.a.	—	—	—
Mascara	—	—	6,442	n.a.	—	—	—
Medea	—	—	5,551	106.0 [11]	5.2	—	—
Mostaganem	—	—	7,559	69.0 [11]	11.0	—	—
Oran	—	—	42,184	500.0 [11]	8.4	—	—
Ouargla	—	—	6,230	199.7 [11]	3.1	—	—
Saida	—	—	7,963	n.a.	—	—	—
Setif	—	—	15,530	160.0 [11]	9.7	—	—
Sidi Bel Abbes	—	—	6,664	158.0 [11]	4.2	—	—
Skikda	—	—	11,290	132.0 [11]	8.6	—	—
Tebessa	—	—	3,934	n.a.	—	—	—
Tiaret	—	—	6,154	n.a.	—	—	—
Tizi Ouzou	—	—	11,180	230.0 [11]	4.9	—	—
Tlemcen	—	—	10,949	120.0 [11]	9.1	—	—
Touggourt	—	—	3,688	n.a.	—	—	—
ANGOLA	—	—	n.r. [60]	6,732.0	—	n.r. [60]	—
Reporting cities account for —% of the total telephones.△							
Reporting cities account for —% of the total main telephones.△							
Reporting cities account for —% of the total population.△							
Benguela	—	—	n.r. [61]	n.r.	—	n.r.	—
Cabinda	—	—	n.r. [61]	n.r.	—	n.r.	—
Cubal	—	—	n.r. [61]	n.r.	—	n.r.	—
Dalatando	—	—	n.r. [61]	n.r.	—	n.r.	—
Gabela	—	—	n.r. [61]	n.r.	—	n.r.	—
Huambo	—	—	n.r. [61]	n.r.	—	n.r.	—
Lobito	—	—	n.r. [61]	n.r.	—	n.r.	—
Luanda	—	—	n.r. [61]	n.r.	—	n.r.	—
Lubango	—	—	n.r. [61]	n.r.	—	n.r.	—
Mocamedes	—	—	n.r. [61]	n.r.	—	n.r.	—
Nguriza	—	—	n.r. [61]	n.r.	—	n.r.	—
Uije	—	—	n.r. [61]	n.r.	—	n.r.	—
‡ **ASCENSION ISLAND** [74]	—	—	n.r. [62]	1.0	—	n.r.	—
Reporting city accounts for —% of the total telephones.△							
Reporting city accounts for —% of the total main telephones.△							
Reporting city accounts for —% of the total population.△							
Georgetown	—	—	n.r. [74]	n.r.	—	n.r.	—
BENIN [82]	—	—	n.r.	3,377.0 [2]	—	n.r.	—
Reporting cities account for —% of the total telephones.△							
Reporting cities account for —% of the total main telephones.△							
Reporting cities account for 6.5% of the total population.△							
Cotonou	—	—	n.r.	140.0 [2]	—	n.r.	—
Porto Novo	—	—	n.r.	80.0 [2]	—	n.r.	—
BOTSWANA [104]	—	—	n.r.	780.0 [2]	—	n.r.	—
Reporting cities account for —% of the total telephones.△							
Reporting cities account for —% of the total main telephones.△							

COUNTRY & CITY *	TELEPHONE EXCHANGE GEO. SCOPE	TELEPHONE EXCHANGE NBR.	TOTAL TELE PHONES	POPULATION (000)	TOT. TELS. PER 100 POP.	TOTAL MAIN TELS.	TOT. MAIN TELS./ 100 POP.
BOTSWANA (Continued)							
Reporting cities account for 17.1% of the total population.△							
Francistown	—	—	n.r.	33.0 [2]	—	n.r.	—
Gaborone	—	—	n.r.	60.0 [2]	—	n.r.	—
Lobatse	—	—	n.r.	15.0 [2]	—	n.r.	—
Orapa	—	—	n.r.	2.5 [2]	—	n.r.	—
Selebi-Pikwi	—	—	n.r.	23.0 [2]	—	n.r.	—
BURUNDI [457]	—	—	n.r. [457]	4,100.0 [2]	—	n.r.	—
Reporting cities account for —% of the total telephones.△							
Reporting cities account for —% of the total main telephones.△							
Reporting cities account for 4.0% of the total population.△							
Bujumbura	—	—	n.r. [471]	150.0 [2]	—	n.r.	—
Bururi	—	—	n.r. [471]	—	—	n.r.	—
Gitega	—	—	n.r. [471]	15.0 [2]	—	n.r.	—
Ngozi	—	—	n.r. [471]	—	—	n.r.	—
CAMEROON [472]	—	—	n.r. [472]	8,058.0	—	n.r.	—
Reporting cities account for —% of the total telephones.△							
Reporting cities account for —% of the total main telephones.△							
Reporting cities account for 10.6% of the total population.△							
Douala	—	—	n.r. [472]	500.0 [2]	—	n.r.	—
Mbalmayo	—	—	n.r. [472]	—	—	n.r.	—
Yaounde	—	—	n.r. [472]	350.0 [2]	—	n.r.	—
CAPE VERDE	—	—	1,729	296.1	0.6	1,500	0.5
Reporting cities account for 86.2% of the total telephones.△							
Reporting cities account for —% of the total main telephones.△							
Reporting cities account for 63.4% of the total population.△							
Mindelo	(A)	—	900	41.8	2.2	—	—
Praia	(A)	—	600	145.9	0.4	—	—
CENTRAL AFRICAN REPUBLIC [490]	—	—	n.r. [490]	2,200.0	—	n.r.	—
Reporting cities account for —% of the total telephones.△							
Reporting cities account for —% of the total main telephones.△							
Reporting cities account for 24.6% of the total population.△							
Bambari	—	—	n.r.	35.0 [612]	—	n.r.	—
Bangassou	—	—	n.r.	46.0 [612]	—	n.r.	—
Bangui	—	—	n.r.	301.0 [612]	—	n.r.	—
Berberati	—	—	n.r.	93.0 [612]	—	n.r.	—
Bouar	—	—	n.r.	48.0 [612]	—	n.r.	—
Mbaiki	—	—	n.r.	17.0	—	n.r.	—
CHAD [539]	—	—	n.r. [539]	4,000.0	—	n.r.	—
Reporting cities account for —% of the total telephones.△							
Reporting cities account for —% of the total main telephones.△							
Reporting cities account for 8.0% of the total population.△							
Abeche	—	—	n.r. [540]	40.0 [539]	—	n.r.	—
Moundou	—	—	n.r. [540]	40.0 [539]	—	n.r.	—
N'Djamena	—	—	n.r. [540]	200.0 [535]	—	n.r.	—
Sarh	—	—	n.r. [540]	40.0 [539]	—	n.r.	—
COMOROS [552]	—	—	n.r. [552]	370.0	—	n.r.	—
Reporting cities account for —% of the total telephones.△							
Reporting cities account for —% of the total main telephones.△							
Reporting cities account for 9.7% of the total population.△							
Moroni	—	—	n.r. [554]	22.0 [2]	—	n.r.	—
Mutsamuou	—	—	n.r. [555]	14.0 [2]	—	n.r.	—
CONGO [563]	—	—	n.r. [563]	1,400.0	—	n.r.	—
Reporting cities account for —% of the total telephones.△							
Reporting cities account for —% of the total main telephones.△							

COUNTRY & CITY *	TELEPHONE EXCHANGE GEO. [8] SCOPE	NBR.	TOTAL TELE-PHONES	POPULA-TION (000)	TOT TELS PER 100 POP.	TOTAL MAIN TELS.	TOT. MAIN TELS./ 100 POP.
World Zone 2 (Continued)							
CONGO (Continued)							
Reporting cities account for 26.4% of the total population.△							
Brazzaville	–	–	n.r.	200.0 [2]	–	n.r.	–
Loubomo	–	–	n.r.	34.0 [2]	–	n.r.	–
Pointe-Noiri	–	–	n.r.	135.0 [2]	–	n.r.	–
DJIBOUTI [671]	–	–	n.r. [671]	**250.0**	–	**n.r.**	–
Reporting cities account for –% of the total telephones.△							
Reporting cities account for –% of the total main telephones.△							
Reporting cities account for 54.0% of the total population.△							
Ali-Sabien	–	–	n.r.	n.a.	–	n.r.	–
Dikhil	–	–	n.r.	n.a.	–	n.r.	–
Djibouti	–	–	n.r.	135.0	–	n.r.	–
Obock	–	–	n.r.	n.a.	–	n.r.	–
Tadjouran	–	–	n.r.	n.a.	–	n.r.	–
EGYPT	–	–	**534,021**	**44,000.0**	**1.2**	**395,426**	**0.9**
Reporting cities account for 76.9% of the total telephones.△							
Reporting cities account for –% of the total main telephones.△							
Reporting cities account for 21.5% of the total population.△							
Alex	(A)	–	71,612	2,317.7 [39]	3.1	–	–
Aswan	(B)	–	3,323	144.6 [39]	2.3	–	–
Asyut	(B)	–	9,321	213.8 [39]	4.4	–	–
Bevi-Suef	(B)	–	4,001	118.1 [39]	3.4	–	–
Cairo	(A)	–	220,027	5,074.0 [39]	4.3	–	–
Damanhour	(B)	–	7,630	170.6 [39]	4.5	–	–
El Gardaca	(B)	–	691	n.a.	–	–	–
El Ismailia	(B)	–	10,550	145.9 [39]	7.2	–	–
El Mansoura	(B)	–	19,754	259.4 [39]	7.6	–	–
El Minya	(B)	–	7,786	146.4 [39]	5.3	–	–
El Zagazig	(B)	–	11,505	202.6 [39]	5.7	–	–
El-Faiyum	(B)	–	4,108	166.9 [39]	2.5	–	–
Guena	(B)	–	4,528	n.a.	–	–	–
Shebin El Kom	(B)	–	10,965	102.8 [39]	10.7	–	–
Sohag	(B)	–	5,876	101.8 [39]	5.8	–	–
Tanta	(B)	–	19,108	283.1 [39]	6.8	–	–
EQUATORIAL GUINEA	–	–	**n.r.**	**310.0**	–	**n.r.**	–
Reporting cities account for –% of the total telephones.△							
Reporting cities account for –% of the total main telephones.△							
Reporting cities account for –% of the total population.△							
Bata [654]	–	–	n.r.	n.a.	–	n.r.	–
Malabo [652]	–	–	n.r.	n.a.	–	n.r.	–
ETHIOPIA	–	–	**87,846**	**31,485.0**	**0.3**	–	–
Reporting cities account for 74.6% of the total telephones.△							
Reporting cities account for –% of the total main telephones.△							
Reporting cities account for 5.9% of the total population.△							
Addis Ababa	(B)	–	52,610	1,341.0	3.9	35,837	2.7
Asmara	(B)	–	11,025	434.0	2.6	8,887	2.1
Dire Dawa	(B)	–	1,854	82.0	2.3	1,486	1.8
GABON	–	–	**11,600**	**950.0**	**1.2**	**8,689**	**0.9**
Reporting cities account for –% of the total telephones.△							
Reporting cities account for 97.7% of the total main telephones.△							
Reporting cities account for 52.8% of the total population.△							
Bitam	(A)	1	–	8.8 [577]	–	110	1.3
France Ville	(A)	1	–	20.0 [577]	–	277	1.4
Koulamoutou	(A)	1	–	11.9 [577]	–	161	1.4
Lambarene	(B)	1	–	26.3 [577]	–	173	0.7
Libreville	(A)	5	–	225.3 [577]	–	5,983	2.7
Makokou	(A)	1	–	7.4 [577]	–	168	2.3
Moanda	(A)	1	–	22.9 [577]	–	150	0.7
Mouila	(A)	1	–	22.2 [577]	–	134	0.6
Ndjole	(A)	1	–	11.1 [577]	–	99	0.9
Oyem	(A)	1	–	18.4 [577]	–	217	1.2

COUNTRY & CITY *	TELEPHONE EXCHANGE GEO. [8] SCOPE	NBR.	TOTAL TELE-PHONES	POPULA-TION (000)	TOT.TELS. PER 100 POP.	TOTAL MAIN TELS.	TOT. MAIN TELS./ 100 POP.
GABON (Continued)							
Port Gentil	(A)	1	–	103.3	–	866	0.8
Tchibanga	(A)	1	–	24.1	–	147	0.6
GAMBIA [89]	–	–	**n.r.** [1]	**584.5**	–	**n.r.**	–
Reporting cities account for –% of the total telephones.△							
Reporting cities account for –% of the total main telephones.△							
Reporting cities account for –% of the total population.△							
Banjul	–	–	n.r. [89]	n.a.	–	n.r.	–
Bansang	–	–	n.r. [89]	n.a.	–	n.r.	–
Barra	–	–	n.r. [89]	n.a.	–	n.r.	–
Basse	–	–	n.r. [89]	n.a.	–	n.r.	–
Brikama	–	–	n.r. [89]	n.a.	–	n.r.	–
Farafenni	–	–	n.r. [89]	n.a.	–	n.r.	–
Georgetown	–	–	n.r. [89]	n.a.	–	n.r.	–
Kaur	–	–	n.r. [89]	n.a.	–	n.r.	–
Kerewan	–	–	n.r. [89]	n.a.	–	n.r.	–
Kuntaur	–	–	n.r. [89]	n.a.	–	n.r.	–
Mansakonko	–	–	n.r. [89]	n.a.	–	n.r.	–
Serrekunda	–	–	n.r. [89]	n.a.	–	n.r.	–
Yundum	–	–	n.r. [89]	n.a.	–	n.r.	–
GHANA [629]	–	–	**n.r.**	**11,145.0**	–	**n.r.**	–
Reporting cities account for –% of the total telephones.△							
Reporting cities account for –% of the total main telephones.△							
Reporting cities account for 14.3% of the total population.△							
Accra	(A) [649]	–	n.r. [629]	713.0 [649]	–	n.r.	–
Bolgatanga	(B) [649]	–	n.r. [629]	33.0 [649]	–	n.r.	–
Cape Coast	(B) [649]	–	n.r. [629]	57.0 [649]	–	n.r.	–
Ho	(B) [649]	–	n.r. [629]	30.0 [649]	–	n.r.	–
Kofondua	(B) [649]	–	n.r. [629]	52.0 [649]	–	n.r.	–
Kumasi	(A) [649]	–	n.r. [629]	283.0 [649]	–	n.r.	–
Sakondi/Takoradi	(B) [649]	–	n.r. [629]	100.0 [649]	–	n.r.	–
Sunyani	(B) [649]	–	n.r. [629]	27.0 [649]	–	n.r.	–
Swedru	(B) [649]	–	n.r. [629]	22.0 [649]	–	n.r.	–
Tamale	(B) [649]	–	n.r. [629]	116.0 [649]	–	n.r.	–
Tema	(B) [649]	–	n.r. [629]	112.0 [649]	–	n.r.	–
Winneba	(B) [649]	–	n.r. [629]	33.0 [649]	–	n.r.	–
GUINEA BISSAU [44]	–	–	**n.r.** [44]	**553.0**	–	**n.r.**	–
Reporting cities account for –% of the total telephones.△							
Reporting cities account for –% of the total main telephones.△							
Reporting cities account for 41.0% of the total population.△							
Bafata	–	–	n.r.	117.2	–	n.r.	–
Bissau	–	–	n.r.	109.5 [469]	–	n.r.	–
Madina De Boe	–	–	n.r.	n.a.	–	n.r.	–
GUINEA, REP. OF [673]	–	–	**n.r.** [673]	**4,500.0** [2]	–	**n.r.**	–
Reporting cities account for –% of the total telephones.△							
Reporting cities account for –% of the total main telephones.△							
Reporting cities account for 27.7% of the total population.△							
Conakry	–	–	n.r.	575.0 [2]	–	n.r.	–
Labe	–	–	n.r.	419.0 [2]	–	n.r.	–
Siguiri	–	–	n.r.	254.0 [2]	–	n.r.	–
IVORY COAST [824]	–	–	**n.r.** [824]	**7,036.0**	–	**n.r.**	–
Reporting cities account for –% of the total telephones.△							
Reporting cities account for –% of the total main telephones.△							
Reporting cities account for 94.0% of the total population.△							
Abengourou	–	–	n.r. [824]	177.0 [656]	–	n.r.	–
Abidjan	–	–	n.r. [824]	1,389.0 [656]	–	n.r.	–
Aboisso	–	–	n.r. [824]	148.0 [656]	–	n.r.	–
Adzope	–	–	n.r. [824]	162.0 [656]	–	n.r.	–
Agboville	–	–	n.r. [824]	141.0 [656]	–	n.r.	–
Bondoukou	–	–	n.r. [824]	296.0 [656]	–	n.r.	–
Bouafle	–	–	n.r. [824]	263.0 [656]	–	n.r.	–
Bouake	–	–	n.r. [824]	808.0 [656]	–	n.r.	–

Table 14: (continued)
Total and Main Telephones in the World's Principal Cities
Reported data as of January 1, 1981

COUNTRY & CITY *	TELEPHONE EXCHANGE GEO.[8] SCOPE	TELEPHONE EXCHANGE NBR.	TOTAL TELE-PHONES	POPULA-TION (000)	TOT. TELS. PER 100 POP.	TOTAL MAIN TELS.	TOT. MAIN TELS./ 100 POP.
World Zone 2 (Continued)							
IVORY COAST (Continued)							
Bouna	–	–	n.r.[824]	84.0[656]	–	n.r.	–
Boundiali	–	–	n.r.[824]	132.0[656]	–	n.r.	–
Dabakala	–	–	n.r.[824]	56.0[656]	–	n.r.	–
Daloa	–	–	n.r.[824]	369.0[656]	–	n.r.	–
Danane	–	–	n.r.[824]	170.0[656]	–	n.r.	–
Dimbokro	–	–	n.r.[824]	475.0[656]	–	n.r.	–
Divo	–	–	n.r.[824]	278.0[656]	–	n.r.	–
Ferkessedougou	–	–	n.r.[824]	90.0[656]	–	n.r.	–
Gagnoa	–	–	n.r.[824]	259.0[656]	–	n.r.	–
Guiglo	–	–	n.r.[824]	137.0[656]	–	n.r.	–
Katiola	–	–	n.r.[824]	77.0[656]	–	n.r.	–
Korhogo	–	–	n.r.[824]	276.0[656]	–	n.r.	–
Man	–	–	n.r.[824]	278.0[656]	–	n.r.	–
Odienne	–	–	n.r.[824]	124.0[656]	–	n.r.	–
Sassandra	–	–	n.r.[824]	191.0[656]	–	n.r.	–
Seguela	–	–	n.r.[824]	157.0[656]	–	n.r.	–
Touba	–	–	n.r.[824]	77.0[656]	–	n.r.	–
KENYA	–	–	198,294	16,000.0	1.2	83,649	0.5
Reporting cities account for 75.1% of the total telephones.△							
Reporting cities account for 70.7% of the total main telephones.△							
Reporting cities account for 30.0% of the total population.△							
Eldoret	(A)	1	2,614	300.8[66]	0.9	1,148	0.4
Kisumu	(A)	2	5,480	482.3[66]	1.1	2,534	0.5
Machakos	(A)	1	947	1,022.5[66]	<0.1	365	<0.1
Mombasa	(A)	7	25,482	341.1[66]	7.5	11,367	3.3
Nairobi	(A)	14	101,840	827.8[66]	12.3	38,764	4.7
Nakuru	(A)	2	6,427	522.7[66]	1.2	2,543	0.5
Nanyuki	(A)	1	1,288	134.5[66]	1.0	426	0.3
Nyeri	(A)	1	2,427	486.5[66]	0.5	900	0.2
Thika	(A)	1	2,362	686.3[66]	0.3	1,076	0.2
LESOTHO[822]	–	–	n.r.[822]	1,200.0[2]	–	n.r.	–
Reporting cities account for –% of the total telephones.△							
Reporting cities account for –% of the total main telephones.△							
Reporting cities account for 7.7% of the total population.△							
Leribe	–	–	n.r.	5.2[2]	–	n.r.	–
Maseru	–	–	n.r.	71.5[2]	–	n.r.	–
Mefeteng	–	–	n.r.	4.6[2]	–	n.r.	–
Mohale's Hoer	–	–	n.r.	3.6[2]	–	n.r.	–
Teyateyaneng	–	–	n.r.	6.9[2]	–	n.r.	–
LIBERIA[820]	–	–	n.r.[820]	1,733.0[2]	–	n.r.	–
Reporting cities account for –% of the total telephones.△							
Reporting cities account for –% of the total main telephones.△							
Reporting cities account for 17.7% of the total population.△							
Buchanan	–	–	n.r.	25.0[2]	–	n.r.	–
Harbel	–	–	n.r.	60.0[2]	–	n.r.	–
Monrovia	(A)[662]	–	n.r.	205.0[2]	–	n.r.	–
Yekepa	–	–	n.r.	16.0[2]	–	n.r.	–
LIBYA	–	–	n.r.	2,450.0	–	n.r.	–
Reporting cities account for –% of the total telephones.△							
Reporting cities account for –% of the total main telephones.△							
Reporting cities account for 16.9% of the total population.△							
Benghazi	–	–	n.r.	132.0[672]	–	n.r.	–
Tripoli	–	–	n.r.	281.5[2]	–	n.r.	–
MALAGASY[222] (MADAGASCAR)	–	–	n.r.	8,250.0[678]	–	n.r.	–
Reporting cities account for –% of the total telephones.△							
Reporting cities account for –% of the total main telephones.△							
Reporting cities account for 14.0% of the total population.△							
Ambatondrazaka[678]	(B)[678]	–	n.r.	29.0[678]	–	n.r.	–
Antalaha[678]	(B)[678]	–	n.r.	21.0[678]	–	n.r.	–
Antananarivo[678]	(B)[678]	–	n.r.	435.0[678]	–	n.r.	–
Antsirabe[678]	(B)[678]	–	n.r.	55.0[678]	–	n.r.	–
Diego Suarez[678]	(B)[678]	–	n.r.	60.0[678]	–	n.r.	–
Fianarantsoa[678]	(B)[678]	–	n.r.	117.0[678]	–	n.r.	–
Fort-Dauphia[678]	(B)[678]	–	n.r.	19.0[678]	–	n.r.	–
Majunga[678]	(B)[678]	–	n.r.	80.0[678]	–	n.r.	–
Manakara[678]	(B)[678]	–	n.r.	27.0[678]	–	n.r.	–
Mananjary[678]	(B)[678]	–	n.r.	22.0[678]	–	n.r.	–
Morondava[678]	(B)[678]	–	n.r.	34.0[678]	–	n.r.	–
Nossi-Be[678]	(B)[678]	–	n.r.	25.0[678]	–	n.r.	–
Tamatave[678]	(B)[678]	–	n.r.	178.0[678]	–	n.r.	–
Tulear[678]	(B)[678]	–	n.r.	53.0[678]	–	n.r.	–
MALAWI	–	–	15,130	5,669.0	0.3	12,152	0.2
Reporting cities account for 90.0% of the total telephones.△							
Reporting cities account for 90.9% of the total main telephones.△							
Reporting cities account for –% of the total population.△							
Blantyre	(A)	5	8,433	–	–	7,012	–
Lilongwe	(A)	4	4,026	–	–	3,127	–
Mzuzu	(A)	1	397	–	–	291	–
Zomba	(A)	1	765	–	–	612	–
MALI[323]	–	–	n.r.[805]	6,300.0[679]	–	n.r.	–
Reporting cities account for –% of the total telephones.△							
Reporting cities account for –% of the total main telephones.△							
Reporting cities account for 7.8% of the total population.△							
Bamako	–	–	n.r.	400.0[681]	–	n.r.	–
Kayes	–	–	n.r.	28.5[681]	–	n.r.	–
Mopti	–	–	n.r.	32.5[681]	–	n.r.	–
Segou	–	–	n.r.	28.0[681]	–	n.r.	–
MAURITANIA[814]	–	–	n.r.[814]	1,420.0[682]	–	n.r.	–
Reporting cities account for –% of the total telephones.△							
Reporting cities account for –% of the total main telephones.△							
Reporting cities account for 19.1% of the total population.△							
Kaedi	–	–	n.r.	20.9[2]	–	n.r.	–
Kiffa	–	–	n.r.	10.6[2]	–	n.r.	–
Nouadhibou	–	–	n.r.	22.0[2]	–	n.r.	–
Nouakchott	–	–	n.r.	200.0[684]	–	n.r.	–
Zouerate	–	–	n.r.	17.5[2]	–	n.r.	–
MAURITIUS	–	–	37,812	938.0	4.0	21,957	2.3
Reporting cities account for 38.3% of the total telephones.△							
Reporting cities account for 36.1% of the total main telephones.△							
Reporting cities account for 79.6% of the total population.△							
Port Louis	(A)	–	14,487	747.0	1.9	7,931	1.1
MOROCCO[815]	–	–	n.r.[815]	19,600.0[689]	–	n.r.	–
Reporting cities account for –% of the total telephones.△							
Reporting cities account for –% of the total main telephones.△							
Reporting cities account for 30.6% of the total population.△							
Agadir	–	–	n.r.	96.0[689]	–	n.r.	–
Beni-Mellal	–	–	n.r.	91.0[689]	–	n.r.	–
Casablanca	–	–	n.r.	2,400.0[689]	–	n.r.	–
El Jadida	–	–	n.r.	85.0[689]	–	n.r.	–
Fes	–	–	n.r.	440.0[689]	–	n.r.	–

COUNTRY & CITY *	TELEPHONE EXCHANGE GEO.[8] SCOPE	NBR.	TOTAL TELE-PHONES	POPULA-TION (000)	TOT. TELS. PER 100 POP.	TOTAL MAIN TELS.	TOT. MAIN TELS./ 100 POP.
World Zone 2 (Continued)							
MOROCCO (Continued)							
Kenitra	–	–	n.r.	185.0 [689]	–	n.r.	–
Laayoune	–	–	n.r.	34.0 [689]	–	n.r.	–
Maknes	–	–	n.r.	340.0 [689]	–	n.r.	–
Marrakech	–	–	n.r.	450.0 [689]	–	n.r.	–
Mohammedia	–	–	n.r.	103.0 [689]	–	n.r.	–
Nador	–	–	n.r.	60.0 [689]	–	n.r.	–
Oujda	–	–	n.r.	240.0 [689]	–	n.r.	–
Rabat-Sale	–	–	n.r.	700.0 [689]	–	n.r.	–
Safi	–	–	n.r.	173.0 [689]	–	n.r.	–
Settat	–	–	n.r.	73.0 [689]	–	n.r.	–
Tangier	–	–	n.r.	260.0 [689]	–	n.r.	–
Taza	–	–	n.r.	78.0 [689]	–	n.r.	–
Tetouan	–	–	n.r.	185.0 [689]	–	n.r.	–
MOZAMBIQUE [827]	–	–	n.r. [827]	12,065.0	–	n.r.	–
Reporting cities account for –% of the total telephones.Δ							
Reporting cities account for –% of the total main telephones.Δ							
Reporting cities account for –% of the total population.Δ							
Beira	(B) [693]	–	n.r.	n.a.	–	n.r.	–
Chimoio	(B) [693]	–	n.r.	n.a.	–	n.r.	–
Inhambane	(B) [693]	–	n.r.	n.a.	–	n.r.	–
Lichinga	(B) [693]	–	n.r.	n.a.	–	n.r.	–
Maputo	(B) [693]	–	n.r.	n.a.	–	n.r.	–
Nacala	(B) [693]	–	n.r.	n.a.	–	n.r.	–
Nampula	(B) [693]	–	n.r.	n.a.	–	n.r.	–
Pemba	(B) [693]	–	n.r.	n.a.	–	n.r.	–
Quelimane	(B) [693]	–	n.r.	n.a.	–	n.r.	–
Tete	(B) [693]	–	n.r.	n.a.	–	n.r.	–
Xai-Xai	(B) [693]	–	n.r.	n.a.	–	n.r.	–
NAMIBIA (SOUTH WEST AFRICA)	–	–	54,281	961.0	5.7	31,485	3.3
Reporting cities account for 49.0% of the total telephones.Δ							
Reporting city accounts for 57.1% of the total main telephones.Δ							
Reporting city accounts for 10.1% of the total population.Δ							
Windhoek	(A)	5 [55]	26,570	97.0 * [57]	27.4	17,989	18.6
NIGER [840]	–	–	n.r. [840]	5,200.0 [694]	–	n.r.	–
Reporting city accounts for –% of the total telephones.Δ							
Reporting city accounts for –% of the total main telephones.Δ							
Reporting city accounts for 3.9% of the total population.Δ							
Naimey	–	–	n.r.	200.0 [696]	–	n.r.	–
NIGERIA [843]	–	–	n.r. [843]	80,000.0 [697]	–	n.r.	–
Reporting cities account for –% of the total telephones.Δ							
Reporting cities account for –% of the total main telephones.Δ							
Reporting cities account for –% of the total population.Δ							
Aba	(A) [699]	–	n.r.	n.a.	–	n.r.	–
Abeokuta	(A) [699]	–	n.r.	n.a.	–	n.r.	–
Ado-Ekiti	(A) [699]	–	n.r.	n.a.	–	n.r.	–
Akure	(A) [699]	–	n.r.	n.a.	–	n.r.	–
Bauchi	(A) [699]	–	n.r.	n.a.	–	n.r.	–
Benin	(A) [699]	–	n.r.	n.a.	–	n.r.	–
Calabar	(A) [699]	–	n.r.	n.a.	–	n.r.	–
Enugu	(A) [699]	–	n.r.	n.a.	–	n.r.	–
Funtua	(A) [699]	–	n.r.	n.a.	–	n.r.	–
Gombe	(A) [699]	–	n.r.	n.a.	–	n.r.	–
Gusau	(A) [699]	–	n.r.	n.a.	–	n.r.	–
Ibadan	(A) [699]	–	n.r.	n.a.	–	n.r.	–
Ijebu-Ode	(A) [699]	–	n.r.	n.a.	–	n.r.	–
Ile-Ife	(A) [699]	–	n.r.	n.a.	–	n.r.	–
Ilesha	(A) [699]	–	n.r.	n.a.	–	n.r.	–
Ilorin	(A) [699]	–	n.r.	n.a.	–	n.r.	–
Jos	(A) [699]	–	n.r.	n.a.	–	n.r.	–
Kaduna	(A) [699]	–	n.r.	n.a.	–	n.r.	–
Kano	(A)	–	n.r.	n.a.	–	n.r.	–
Lagos	(A)	–	n.r.	n.a.	–	n.r.	–
Maiduguri	(A) [699]	–	n.r.	n.a.	–	n.r.	–
Makurdi	(A) [699]	–	n.r.	n.a.	–	n.r.	–
Minna	(A) [699]	–	n.r.	n.a.	–	n.r.	–
Nsukka	(A) [699]	–	n.r.	n.a.	–	n.r.	–
Ogoja	(A) [699]	–	n.r.	n.a.	–	n.r.	–
Ondo	(A) [699]	–	n.r.	n.a.	–	n.r.	–
Onitsha	(A) [699]	–	n.r.	n.a.	–	n.r.	–
Oshogbo	(A) [699]	–	n.r.	n.a.	–	n.r.	–
Owerri	(A) [699]	–	n.r.	n.a.	–	n.r.	–
Owo	(A) [699]	–	n.r.	n.a.	–	n.r.	–
Portharcourt	(A) [699]	–	n.r.	n.a.	–	n.r.	–
Sapele	(A) [699]	–	n.r.	n.a.	–	n.r.	–
Shagamu	(A) [699]	–	n.r.	n.a.	–	n.r.	–
Sokoto	(A) [699]	–	n.r.	n.a.	–	n.r.	–
Umuahia	(A) [699]	–	n.r.	n.a	–	n.r.	–
Uyo	(A) [699]	–	n.r.	n.a.	–	n.r.	–
Warri	(A) [699]	–	n.r.	n.a.	–	n.r.	–
Yola	(A) [699]	–	n.r.	n.a.	–	n.r.	–
Zaria	(A) [699]	–	n.r.	n.a.	–	n.r.	–
REUNION	–	–	60,296	504.0	12.0	38,111	7.6
Reporting city accounts for 30.2% of the total telephones.Δ							
Reporting city accounts for 30.2% of the total main telephones.Δ							
Reporting city accounts for 20.6% of the total population.Δ							
St. Denis	(A)	2	18,227	104.0	17.5	11,521	11.1
RWANDA [847]	–	–	n.r. [847]	5,100.0 [2]	–	n.r.	–
Reporting cities account for –% of the total telephones.Δ							
Reporting cities account for –% of the total main telephones.Δ							
Reporting cities account for –% of the total population.Δ							
Butare	–	–	n.r.	n.a.	–	n.r.	–
Byumba	–	–	n.r.	n.a.	–	n.r.	–
Cyangugu	–	–	n.r.	n.a.	–	n.r.	–
Gikongoro	–	–	n.r.	n.a.	–	n.r.	–
Gisenyi	–	–	n.r.	n.a.	–	n.r.	–
Gitarama	–	–	n.r.	n.a.	–	n.r.	–
Kibungo	–	–	n.r.	n.a.	–	n.r.	–
Kibuye	–	–	n.r.	n.a.	–	n.r.	–
Kigali	–	–	n.r.	n.a.	–	n.r.	–
Nyabisindu	–	–	n.r.	n.a.	–	n.r.	–
Ruhengeri	–	–	n.r.	n.a.	–	n.r.	–
‡ **SAINT HELENA** [71]	–	–	n.r. [71]	6.0 [2]	–	n.r.	–
Reporting city accounts for –% of the total telephones.Δ							
Reporting city accounts for –% of the total main telephones.Δ							
Reporting city accounts for –% of the total population.Δ							
Jamestown	–	–	n.r.	n.a.	–	n.r.	–
SAO TOME AND PRINCIPE [803]	–	–	n.r. [803]	83.0 [716]	–	n.r.	–
Reporting cities account for –% of the total telephones.Δ							
Reporting cities account for –% of the total main telephones.Δ							
Reporting cities account for 63.0% of the total population.Δ							
Angolares	(A) [716]	–	n.r.	3.9 [716]	–	n.r.	–
Neves	(A) [716]	–	n.r.	6.3 [716]	–	n.r.	–
Santana	(A) [716]	–	n.r.	5.8 [716]	–	n.r.	–
Sao Tome	(A) [716]	–	n.r.	20.6 [716]	–	n.r.	–
St. Antonio	(A) [716]	–	n.r.	4.5 [716]	–	n.r.	–
Trindade	(A) [716]	–	n.r.	9.3 [716]	–	n.r.	–

Table 14: (continued)
Total and Main Telephones in the World's Principal Cities
Reported data as of January 1, 1981

COUNTRY & CITY *	TELEPHONE EXCHANGE GEO.[8] SCOPE	TELEPHONE EXCHANGE NBR.	TOTAL TELE-PHONES	POPULA-TION (000)	TOT. TELS. PER 100 POP.	TOTAL MAIN TELS.	TOT. MAIN TELS./ 100 POP.
World Zone 2 (Continued)							
SENEGAL[816]	–	–	n.r.[816]	5,380.0 [2]	–	n.r.	–
Reporting cities account for –% of the total telephones.△							
Reporting cities account for –% of the total main telephones.△							
Reporting cities account for –% of the total population.△							
Dakar	–	–	n.r.	n.a.	–	n.r.	–
Diourbel	–	–	n.r.	n.a.	–	n.r.	–
Fatick	–	–	n.r.	n.a.	–	n.r.	–
Kaolack	–	–	n.r.	n.a.	–	n.r.	–
Kebemer	–	–	n.r.	n.a.	–	n.r.	–
Kidira	–	–	n.r.	n.a.	–	n.r.	–
Koungheal	–	–	n.r.	n.a.	–	n.r.	–
Linguere	–	–	n.r.	n.a.	–	n.r.	–
Louga	–	–	n.r.	n.a.	–	n.r.	–
Mbour	–	–	n.r.	n.a.	–	n.r.	–
Saint Louis	–	–	n.r.	n.a.	–	n.r.	–
Tambacounda	–	–	n.r.	n.a.	–	n.r.	–
Thies	–	–	n.r.	n.a.	–	n.r.	–
Touba	–	–	n.r.	n.a.	–	n.r.	–
Ziguinchor	–	–	n.r.	n.a.	–	n.r.	–
SEYCHELLES	–	–	7,105	64.0	11.1	3,420	5.3
Reporting cities account for 100.0% of the total telephones.△							
Reporting cities account for 100.0% of the total main telephones.△							
Reporting cities account for –% of the total population.△							
Anse Aux-Pins	(A)	1	1,091[361]	–	–	525	–
Helvetia	(A)	1	202[361]	–	–	97	–
La Digue	(B)	1	82[361]	–	–	40	–
Praslin	(B)	1	295[361]	–	–	142	–
Victoria	(A)	1	5,435[361]	–	–	2,616	–
SIERRE LEONE[879]	–	–	n.r.[879]	3,500.0 [2]	–	n.r.	–
Reporting cities account for –% of the total telephones.△							
Reporting cities account for –% of the total main telephones.△							
Reporting cities account for –% of the total population.△							
Bo	(B)[709]	–	n.r.	n.a.	–	n.r.	–
Brookfields	(D)[709]	–	n.r.	n.a.	–	n.r.	–
Cline Town	(D)[709]	–	n.r.	n.a.	–	n.r.	–
Freetown	(D)[709]	–	n.r.	n.a.	–	n.r.	–
Jelba	(D)[709]	–	n.r.	n.a.	–	n.r.	–
Kenema	(B)[709]	–	n.r.	n.a.	–	n.r.	–
Kildu	(B)[709]	–	n.r.	n.a.	–	n.r.	–
Lungi	(D)[709]	–	n.r.	n.a.	–	n.r.	–
Magburaica	(B)[709]	–	n.r.	n.a.	–	n.r.	–
Makeni	(B)[709]	–	n.r.	n.a.	–	n.r.	–
Wellington	(D)[709]	–	n.r.	n.a.	–	n.r.	–
Wilber Force	(D)[709]	–	n.r.	n.a.	–	n.r.	–
SOMALIA[704]	–	–	n.r.[706]	3,200.0 [2]	–	n.r.	–
Reporting cities account for –% of the total telephones.△							
Reporting cities account for –% of the total main telephones.△							
Reporting cities account for 28.1% of the total population.△							
Hargeisa	–	–	n.r.	500.0[706]	–	n.r.	–
Mogadiscio	–	–	n.r.	400.0[706]	–	n.r.	–
SOUTH AFRICA	–	–	2,932,983	24,152.0	12.1	1,546,408	6.4
Reporting cities account for 74.1% of the total telephones.△							
Reporting cities account for 81.0% of the total main telephones.△							
Reporting cities account for 36.1% of the total population.△							
Bloemfontein	(A)	14	49,313	272.0*	18.1	30,777	11.3
SOUTH AFRICA (Continued)							
Cape Town	(A)	44	378,657	1,503.0*	25.2	241,152	16.0
Durban	(A)	39	286,276	945.0*	30.3	170,303	18.0
East London	(A)	11	37,443	182.0*	20.6	23,977	13.2
Johannesburg[85]	(A)	124	945,032	3,776.0*	25.0	513,499	13.6
Kimberley	(A)	3	19,171	132.0*	14.5	12,248	9.3
Pietermaritzburg	(A)	5	42,300	218.0*	19.4	25,823	11.9
Port Elizabeth	(A)	18	94,074	551.0*	17.1	60,788	11.0
Pretoria	(A)	35	262,023	794.0*	33.0	138,463	17.4
Vereeniging	(A)	13	57,559	348.0*	16.5	35,842	10.3
SOUTH AFRICA – BOPHUTHATSWANA[514]	–	–	10,995	1,287.8	0.9	4,758	0.4
Reporting cities account for 66.0% of the total telephones.△							
Reporting cities account for 100.9% of the total main telephones.△							
Reporting cities account for 12.5% of the total population.△							
Garankuwa	(A)	1	484	83.9	0.6	264	0.3
Mabopane	(A)	1	191	n.a.	–	182	–
Mafikeng[510]	(A)	1	3,554	77.0	4.6	1,571	2.0
Montshiwa	(A)	1	1,275	n.a.	–	1,239	–
Temba	(A)	1	1,754	n.a.	–	1,545	–
SOUTH AFRICA – CISKEI[515]	–	–	n.r.	635.6	–	n.r.	–
Reporting cities account for –% of the total telephones.△							
Reporting cities account for –% of the total main telephones.△							
Reporting cities account for 54.5% of the total population.△							
Mdantsane	–	–	–	178.8	–	–	–
Zwelitsha	–	–	–	167.4	–	–	–
SOUTH AFRICA – TRANSKEI[514]	–	–	n.r.	3,006.0	–	n.r.	–
Reporting city accounts for –% of the total telephones.△							
Reporting city accounts for –% of the total main telephones.△							
Reporting city accounts for 1.3% of the total population.△							
Umtata	–	–	n.r.	40.0	–	n.r.	–
SOUTH AFRICA – VENDA[514]	–	–	n.r.	358.0	–	n.r.	–
Reporting city accounts for –% of the total telephones.△							
Reporting city accounts for –% of the total main telephones.△							
Reporting city accounts for 37.7% of the total population.△							
Sibarra	–	–	n.r.	135.1	–	n.r.	–
SUDAN	–	–	65,038	18,956.0	0.3	45,607	0.2
Reporting cities account for 90.8% of the total telephones.△							
Reporting cities account for 90.3% of the total main telephones.△							
Reporting cities account for 19.5% of the total population.△							
Atbara	(A)	1	1,579	79.2	2.0	1,377	1.7
Damazin	(B)	1	229	15.8	1.5	205	1.3
Damer	(B)	1	230	18.8	1.2	154	0.8
Dongola	(B)	1	335	6.7	5.0	332	5.0
Dueim	(B)	1	345	46.3	0.8	300	0.7
El Obeid	(B)	1	1,517	147.7	1.0	992	0.7
Fasher	(B)	1	605	90.5	0.7	494	0.6
Gedaref	(B)	1	779	123.5	0.6	670	0.5
Juba	(B)	1	696	166.3	0.4	530	0.3
Kadugli	(B)	1	196	22.8	0.9	150	0.7
Kassala	(B)	1	801	193.9	0.4	679	0.4
Khartoum	(A)	13	42,266	1,690.0	2.5	28,120	1.7
Kosti	(B)	1	768	115.4	0.7	698	0.6
Malakal	(B)	1	494	83.0	0.6	277	0.3
New Halfa	(B)	1	515	43.4	1.2	361	0.8

COUNTRY & CITY *	TELEPHONE EXCHANGE GEO.[a] SCOPE	TELEPHONE EXCHANGE NBR.	TOTAL TELE-PHONES	POPULA-TION (000)	TOT. TELS. PER 100 POP.	TOTAL MAIN TELS.	TOT. MAIN TELS./ 100 POP.
World Zone 2 (Continued)							
SUDAN (Continued)							
Nyala	(B)	1	667	166.7	0.4	600	0.4
Port Sudan	(B)	1	4,045	252.4	1.6	3,120	1.2
Rumbek	(B)	1	16	28.0	<0.1	13	<0.1
Sennar	(B)	1	782	50.4	1.6	573	1.1
Wad Medani	(A)	1	1,820	189.5	1.0	1,220	0.6
Wau	(B)	1	374	166.8	0.2	336	0.2
SWAZILAND	–	–	**12,028**	**547.0**	**2.2**	**5,209**	**1.0**
Reporting cities account for 74.4% of the total telephones.△							
Reporting cities account for 97.1% of the total main telephones.△							
Reporting cities account for 10.5% of the total population.△							
Manzini	–	–	2,735	28.8	9.5	1,345	4.7
Mbabane	–	–	5,137	23.1	22.2	3,132	13.6
Nhlangano	–	–	511	2.0	25.6	271	13.6
Piggs Peak	–	–	252	2.0	12.6	135	6.8
Siteki	–	–	315	1.3	24.2	176	13.5
TANZANIA	–	–	**93,238**	**16,553.0**	**0.6**	–	–
Reporting cities account for 66.2% of the total telephones.△							
Reporting cities account for –% of the total main telephones.△							
Reporting cities account for 10.3% of the total population.△							
Arusha	(A)	–	5,954	95.7	6.2	1,968	2.1
Dar-Es-Salaam	(A)	–	40,636	960.0	4.2	17,369	1.8
Dodoma	(A)	–	2,459	182.0	1.4	849	0.5
Mijanza	(A)	–	4,739	187.0	2.5	2,097	1.1
Tanga	(A)	–	4,641	157.0	3.0	2,407	1.5
Zanziber	(A)	–	3,272	121.0	2.7	996	0.8
TOGO	–	–	**7,870**	**2,498.9**	**0.3**	**5,942**	**0.2**
Reporting cities account for 67.5% of the total telephones.△							
Reporting cities account for 89.4% of the total main telephones.△							
Reporting cities account for 14.3% of the total population.△							
Aneho	(B)	–	116	14.0	0.8	116	0.8
Atakpame	(B)	–	219	23.3	0.9	219	0.9
Dapaong	(B)	–	118	–	–	118	–
Kara	(B)	–	190	–	–	190	–
Kpalime	(B)	–	175	27.3	0.6	175	0.6
Lome	(B)	–	4,136	240.0	1.7	4,136	1.7
Mango	(B)	–	64	–	–	64	–
Sokode	(B)	–	215	34.7	0.6	215	0.6
Tsevie	(B)	–	77	16.7	0.5	77	0.5
TUNISIA	–	–	**180,476**	**6,274.0**	**3.0**	**112,355**	**1.8**
Reporting cities account for –% of the total telephones.△							
Reporting cities account for 67.5% of the total main telephones.△							
Reporting cities account for 19.2% of the total population.△							
Beja	–	–	–	41.5	–	1,116	2.7
Bizerte	–	–	–	67.5	–	2,712	4.0
Gabes	–	–	–	45.0	–	2,442	5.4
Gafsa	–	–	–	47.0	–	1,495	3.2
Kairouan	–	–	–	60.5	–	1,850	3.1
Kef	–	–	–	30.0	–	1,034	3.5
Nabeul	–	–	–	33.0	–	1,749	5.3
Sfax	–	–	–	187.0	–	8,192	4.4
Sousse	–	–	–	76.0	–	5,489	7.2
Tunis	–	–	–	618.0	–	49,705	8.0
UGANDA[157]	–	–	n.r.[157]	**12,630.1**[111]	–	n.r.	–
Reporting cities account for –% of the total telephones.△							
Reporting cities account for –% of the total main telephones.△							
Reporting cities account for 0.2% of the total population.△							
Gula	(B)[126]	–	n.r.	1.3[126]	–	n.r.	–
Jinja	(B)[126]	–	n.r.	8.6[126]	–	n.r.	–
Kampala	(A)[126]	–	n.r.	6.2[126]	–	n.r.	–
Masaka	(B)[126]	–	n.r.	.7[126]	–	n.r.	–
Mbale	(B)[126]	–	n.r.	3.3[126]	–	n.r.	–

COUNTRY & CITY *	TELEPHONE EXCHANGE GEO.[a] SCOPE	TELEPHONE EXCHANGE NBR.	TOTAL TELE-PHONES	POPULA-TION (000)	TOT. TELS. PER 100 POP.	TOTAL MAIN TELS.	TOT. MAIN TELS./ 100 POP.
UGANDA (Continued)							
Mbarara	(B)[126]	–	n.r.	4[126]	–	n.r.	–
Soroti	(B)[126]	–	n.r.	5.0[126]	–	n.r.	–
UPPER VOLTA[161]	–	–	n.r.[161]	**6,500.0**[121]	–	n.r.	–
Reporting cities account for –% of the total telephones.△							
Reporting cities account for –% of the total main telephones.△							
Reporting cities account for 6.3% of the total population.△							
Bobo Dioulasso	–	–	n.r.	150.0[7]	–	n.r.	–
Koudougou	–	–	n.r.	60.0[7]	–	n.r.	–
Ouagadougou	–	–	n.r.	200.0[7]	–	n.r.	–
ZAIRE[162]	–	–	n.r.[162]	**28,291.0**[126]	–	n.r.	–
Reporting cities account for –% of the total telephones.△							
Reporting cities account for –% of the total main telephones.△							
Reporting cities account for 104.4% of the total population.△							
Bandundu	–	–	n.r.	2,704.0[126]	–	n.r.	–
Equateur	–	–	n.r.	2,475.0[126]	–	n.r.	–
Haut-Zaire	–	–	n.r.	3,842.0[126]	–	n.r.	–
Kasai-Occ	–	–	n.r.	2,192.0[126]	–	n.r.	–
Kasai-Or	–	–	n.r.	1,000.0[126]	–	n.r.	–
Kinshasa	–	–	n.r.	3,500.0[126]	–	n.r.	–
Kivu	–	–	n.r.	5,933.0[126]	–	n.r.	–
Mataki	–	–	n.r.	1,939.0[126]	–	n.r.	–
Shaba	–	–	n.r.	1,410.0[126]	–	n.r.	–
ZAMBIA[163]	–	–	n.r.[163]	**5,650.0**[121]	–	n.r.	–
Reporting cities account for –% of the total telephones.△							
Reporting cities account for –% of the total main telephones.△							
Reporting cities account for 24.8% of the total population.△							
Chingola	(A)[126]	–	n.r.	183.0[126]	–	n.r.	–
Kabwe	(A)[126]	–	n.r.	135.0[126]	–	n.r.	–
Kitwe	(A)[126]	–	n.r.	325.0[126]	–	n.r.	–
Livingstone	(A)[126]	–	n.r.	80.0[126]	–	n.r.	–
Luanshya	(A)[126]	–	n.r.	156.0[126]	–	n.r.	–
Lusaka	(A)[126]	–	n.r.	586.0[126]	–	n.r.	–
Mufulira	(A)[126]	–	n.r.	178.0[126]	–	n.r.	–
Ndola	(A)[126]	–	n.r.	307.0[126]	–	n.r.	–
ZIMBABWE (RHODESIA)	–	–	**224,452**	**7,610.0**	**3.0**	**85,486**	**1.1**
Reporting cities account for 94.5% of the total telephones.△							
Reporting cities account for 99.2% of the total main telephones.△							
Reporting cities account for 17.3% of the total population.△							
Bulawayo	(A)	3	39,511	383.0	10.3	21,898	5.7
Fort Victoria	(A)	1	3,738	27.0	14.1	1,709	6.3
Gatooma	(A)	1	2,757	34.0	8.2	1,036	3.1
Gwelo	(A)	1	7,629	73.0	10.5	3,703	5.1
Que Que	(A)	1	4,277	53.0	8.1	1,667	3.2
Salisbury	(A)	5	124,482	681.0	18.3	52,737	7.7
Umtali	(A)	1	7,382	65.0	11.4	3,535	5.4

Summary

Data for reporting cities in World Zone 2 account for 71.9% of the total telephones, 61.2% of the total main telephones and 19.7% of the total population for the Zone.

World Zone 3 & 4

ALBANIA[150]	–	–	n.r.[150]	**2,608.0**[7]	–	n.r.	–
Reporting cities account for –% of the total telephones.△							
Reporting cities account for –% of the total main telephones.△							
Reporting cities account for 14.2% of the total population.△							
Durazzo	–	–	n.r.	60.0[126]	–	n.r.	–
Scutari	–	–	n.r.	62.4[126]	–	n.r.	–
Tirana	–	–	n.r.	192.0[126]	–	n.r.	–
Valona	–	–	n.r.	55.5[126]	–	n.r.	–

Table 14: (continued)
Total and Main Telephones in the World's Principal Cities
Reported data as of January 1, 1981

COUNTRY & CITY *	TELEPHONE EXCHANGE GEO. SCOPE	TELEPHONE EXCHANGE NBR.	TOTAL TELE-PHONES	POPULA-TION (000)	TOT. TELS. PER 100 POP.	TOTAL MAIN TELS.	TOT. MAIN TELS./ 100 POP.
World Zones 3&4 (Continued)							
‡ **ANDORRA**	–	–	**15,785**	**36.3**	**43.5**	**8,922**	**24.6**
Reporting cities account for 224.6% of the total telephones.Δ							
Reporting cities account for 87.2% of the total main telephones.Δ							
Reporting cities account for 93.1% of the total population.Δ							
Andorra	(A)	–	13,825[99]	14.1	98.1	3,586	25.4
Canillo	–	–	755[99]	0.5	151.0	253	50.6
Encamp	(B)	–	4,116[99]	3.6	114.3	659	18.3
Escaldes	–	–	9,846[99]	10.0	98.5	2,031	20.3
La Massana	(A)	–	2,155[99]	1.4	153.9	307	21.9
Ordino	–	–	713[99]	0.5	142.6	104	20.8
St. Julia	(A)	–	4,050[99]	3.7	109.5	843	22.8
AUSTRIA	–	–	**3,010,110**	**7,559.4**	**39.8**	**2,191,030**	**29.0**
Reporting cities account for 53.3% of the total telephones.Δ							
Reporting cities account for 51.2% of the total main telephones.Δ							
Reporting cities account for 30.9% of the total population.Δ							
Bregenz	–	–	24,308	24.6	98.8	15,051	61.2
Eisenstadt	–	–	8,139	10.2	79.8	4,566	44.8
Graz	–	–	138,758	239.4	58.0	99,251	41.5
Innsbruck	–	–	81,571	116.0	70.3	53,634	46.2
Klagenfurt	–	–	49,471	86.2	57.4	32,688	37.9
Linz	–	–	134,497	201.4	66.8	86,539	43.0
Salzburg	–	–	105,587	138.3	76.4	65,284	47.2
Wien	–	–	1,062,758	1,517.2	70.1	765,369	50.5
BELGIUM	–	–	**3,636,074**	**9,884.0**	**36.8**	**2,462,947**	**24.9**
Reporting cities account for 54.6% of the total telephones.Δ							
Reporting cities account for 48.9% of the total main telephones.Δ							
Reporting cities account for 40.9% of the total population.Δ							
Aalst	(A)	–	34,240	112.0	30.6	25,201	22.5
Antwerp	(A)	–	335,884	687.0	48.9	213,314	31.1
Bruges	(A)	–	55,369	148.0	37.4	37,092	25.1
Brussels	(A)	–	817,025	1,169.0	69.9	432,243	37.0
Charleroi	(A)	–	120,158	380.0	31.6	86,917	22.9
Ghent	(A)	–	141,454	335.0	42.2	90,516	27.0
Kortrijk	(A)	–	37,306	79.0	47.2	21,784	27.6
La Louviere	(A)	–	20,087	68.0	29.5	14,307	21.0
Leuven	(A)	–	61,240	142.0	43.1	36,993	26.1
Liege	(A)	–	193,886	503.0	38.6	133,035	26.5
Mechelen	(A)	–	36,475	92.0	39.7	25,254	27.5
Mons	(A)	–	38,394	106.0	36.2	24,860	23.5
Namur	(A)	–	34,679	76.0	45.6	21,569	28.4
Ostend	(A)	–	29,345	68.0	43.2	20,636	30.4
Verviers	(A)	–	29,201	76.0	38.4	19,545	25.7
BULGARIA	–	–	**1,255,792**	**8,881.0**	**14.1**	**919,976**	**10.4**
Reporting cities account for 46.7% of the total telephones.Δ							
Reporting cities account for –% of the total main telephones.Δ							
Reporting cities account for 26.1% of the total population.Δ							
Bourgas	(A)	–	27,436	167.0	16.4	–	–
Pleven	(A)	–	17,207	125.0	13.8	–	–
Plovdiv	(A)	–	64,060	341.0	18.8	–	–
Rousse	(A)	–	31,998	178.0	18.0	–	–
Sofia	(A)	–	381,420	1,087.0	35.1	–	–
Stara Zagora	(A)	–	20,008	137.0	14.6	–	–
Varna	(A)	–	44,670	264.0	16.7	–	–

COUNTRY & CITY *	TELEPHONE EXCHANGE GEO. SCOPE	TELEPHONE EXCHANGE NBR.	TOTAL TELE-PHONES	POPULA-TION (000)	TOT. TELS. PER 100 POP.	TOTAL MAIN TELS.	TOT. MAIN TELS./ 100 POP.
CYPRUS	–	–	**113,437**	**633.5**	**17.9**	**73,809**	**11.7**
Reporting cities account for 80.5% of the total telephones.Δ							
Reporting cities account for 86.5% of the total main telephones.Δ							
Reporting cities account for 47.8% of the total population.Δ							
Famagusta[121]	(A)	–	–	–	–	–	–
Kyrenta[121]	(A)	–	–	–	–	–	–
Larnaca	(A)	1	8,400	35.0	24.0	5,600	16.0
Limassol	(A)	1	27,900	115.0	24.3	18,600	16.2
Nicosia	(A)	4	51,600	140.0	36.9	37,320	26.7
Paphos	(A)	1	3,450	13.0	26.5	2,300	17.7
CZECHOSLOVAKIA	–	–	**3,150,477**	**15,289.0**	**20.6**	**1,648,696**	**10.8**
Reporting cities account for 37.6% of the total telephones.Δ							
Reporting cities account for 39.3% of the total main telephones.Δ							
Reporting cities account for 17.3% of the total population.Δ							
Bratislava	(A)	–	187,495	381.0	49.2	92,412	24.3
Brno	(B)	–	136,696	372.0	36.8	70,060	18.8
Kosice	(B)	–	64,782	203.0	31.9	41,394	20.4
Ostrava	(B)	–	113,512	322.0	35.3	57,526	17.9
Plzen	(A)	–	54,585	171.0	31.9	32,390	18.9
Praha	(B)	–	627,119	1,198.0	52.4	354,057	29.6
DENMARK[165]	–	–	**3,316,709**	**5,214.4**	**63.6**	**2,249,114**	**43.1**
Reporting cities account for 48.6% of the total telephones.Δ							
Reporting cities account for 44.1% of the total main telephones.Δ							
Reporting cities account for 38.2% of the total population.Δ							
Aalborg	–	–	100,100	154.4	64.8	66,600	43.1
Aarhus	–	–	173,700	245.6	70.7	114,600	46.7
Esbjerg	–	–	48,400	79.7	60.7	32,900	41.3
Koebenhavn	–	–	1,145,000	1,279.0	89.5	679,000	53.1
Odense	–	–	105,000	169.0	62.1	72,000	42.6
Randers	–	–	38,800	62.2	62.4	27,000	43.4
FINLAND	–	–	**2,374,461**	**4,788.0**	**49.6**	**1,615,591**	**33.7**
Reporting cities account for 42.6% of the total telephones.Δ							
Reporting cities account for 43.5% of the total main telephones.Δ							
Reporting cities account for 32.2% of the total population.Δ							
Espoo	–	23	92,688	137.2	67.6	61,732	45.0
Helsinki	–	30	446,721	483.2	92.5	291,118	60.3
Jyvaskyla	–	6	36,714	64.2	57.2	23,994	37.4
Kuopio	–	17	36,773	74.6	49.3	25,151	33.7
Lahti	–	13	50,238	94.7	53.1	36,401	38.4
Oulu	–	14	51,862	93.6	55.4	32,211	34.4
Pori	–	25	40,907	79.5	51.5	28,609	36.0
Tampere	–	21	66,394	165.9	40.0	66,394	40.0
Turku	–	22	105,703	163.2	64.8	76,839	47.1
Vaasa	–	6	29,539	53.9	54.8	19,097	35.4
Vantaa	–	10	54,775	131.9	41.5	41,000	31.1
FRANCE	–	–	**24,686,319**	**53,805.0**	**45.9**	**15,790,516**	**29.4**
Reporting cities account for 21.1% of the total telephones.Δ							
Reporting cities account for 17.2% of the total main telephones.Δ							
Reporting cities account for 11.6% of the total population.Δ							
Bordeaux	(B)	11	172,726	292.0	59.2	98,701	33.8
Lille	(A)	11	217,418	403.0	54.0	121,603	30.2
Lyon (Agglom.)	–[470]	–[470]	747,107	1,363.0	54.8	454,450	33.3
Merseille	(A)	30	487,197	914.0	53.3	323,799	35.4
Nancy	(B)	5	142,908	292.0	48.9	83,704	28.7

COUNTRY & CITY *	TELEPHONE EXCHANGE GEO.[3] SCOPE	TELEPHONE EXCHANGE NBR.	TOTAL TELE-PHONES	POPULA-TION (000)	TOT. TELS. PER 100 POP.	TOTAL MAIN TELS.	TOT. MAIN TELS./ 100 POP.
World Zone 3 & 4 (Continued)							
FRANCE (Continued)							
Nantes	(A)	18	249,300	490.0	50.9	144,819	29.6
Paris(Ville)	(B)	207	2,872,491	1,997.0	143.8	1,329,055	66.6
Rouen	(B)	5	122,995	120.0	102.5	57,376	47.8
Toulouse	(B)	16	207,165	383.0	54.1	106,875	27.9
GERMAN DEM. REP.	–	–	**3,156,661**	**16,740.0**	**18.9**	**1,355,667**	**8.1**
Reporting cities account for 41.2% of the total telephones.△							
Reporting cities account for 41.0% of the total main telephones.△							
Reporting cities account for 25.0% of the total population.△							
Berlin	(A)	–	460,040	1,129.0	40.8	237,563	21.0
Cottbus	(A)	–	26,940	112.0	24.1	10,925	9.8
Dresden	(A)	–	149,177	516.0	28.9	49,576	9.6
Erfurt	(A)	–	55,252	211.0	26.2	23,136	11.0
Frankfurt/Oder	(A)	–	17,896	79.0	22.7	7,191	9.1
Gera	(A)	–	27,348	125.0	21.9	10,485	8.4
Halle	(A)	–	77,496	232.0	33.4	23,727	10.2
Karl-Marx-Stadt	(A)	–	95,000	316.0	30.1	37,522	11.9
Leipzig	(A)	–	168,054	564.0	29.8	70,932	12.6
Magdeburg	(A)	–	66,180	288.0	23.0	24,250	8.4
Neubrandenburg	(A)	–	20,964	79.0	26.5	7,862	10.0
Potsdam	(A)	–	37,938	132.0	28.7	16,128	12.2
Rostock	(A)	–	50,999	228.0	22.4	17,216	7.5
Schwerin	(A)	–	34,587	120.0	28.8	14,319	11.9
Suhl	(A)	–	12,237	49.0	25.0	4,409	9.0
GERMANY, FED. REP.[4]	–	–	**28,553,622**	**61,658.0**	**46.3**	**20,850,306**	**33.8**
Reporting cities account for 37.6% of the total telephones.△							
Reporting cities account for 35.5% of the total main telephones.△							
Reporting cities account for 27.6% of the total population.△							
Aachen	(A)	–	123,734[130]	229.0[134]	54.0	83,728[130]	36.6
Augsburg	(A)	–	163,228[130]	128.0[134]	49.8	118,559[130]	36.2
Berlin (West)	(B)	–	1,290,871[130]	1,902.0[134]	67.9	1,007,458[130]	53.0
Bielefeld	(A)	–	147,101[130]	270.0[134]	54.5	101,297[130]	37.5
Bochum	(A)	–	159,431[130]	340.0[134]	46.9	122,248[130]	36.0
Bonn	(A)	–	231,710[130]	319.0[134]	72.6	131,550[130]	41.2
Braunschwain	(A)	–	142,190[130]	241.0[134]	59.0	101,705[130]	42.2
Bremen	(A)	–	360,727[130]	602.0[134]	59.9	252,746[130]	42.0
Dortmund	(A)	–	316,136[130]	617.0[134]	51.2	237,309[130]	38.5
Dosseldorf	(A)	–	497,458[130]	611.0[134]	81.4	301,628[130]	49.4
Duisburg	(A)	–	221,333[130]	450.0[134]	49.2	166,338[130]	37.0
Essen	(A)	–	373,394[130]	654.0[134]	57.1	272,921[130]	41.7
Frankfurt/Offenbach	(A)	–	625,091[130]	747.0[134]	83.7	358,450[130]	48.0
Gelsenkirchen	(A)	–	139,599[130]	321.0[134]	43.5	112,022[130]	34.9
Hamburg	(A)	–	1,286,591[130]	1,847.0[134]	69.7	896,510[130]	48.5
Hannover	(A)	–	431,469[130]	655.0[134]	65.9	287,427[130]	43.9
Karlsruhe	(A)	–	177,920[130]	295.0[134]	60.3	116,170[130]	39.4
Kassel	(A)	–	146,567[130]	260.0[134]	56.4	102,366[130]	39.4
Kiel	(A)	–	172,080[130]	295.0[134]	58.3	124,331[130]	42.2
Koln	(A)	–	539,825[130]	887.0[134]	60.9	355,514[130]	40.1
Krefeld	(A)	–	136,030[130]	256.0[134]	53.1	100,378[130]	39.2
Lobeck	(A)	–	131,585[130]	245.0[134]	53.7	101,847[130]	41.6
Mannheim	(A)	–	193,885[130]	313.0[134]	61.9	125,921[130]	40.2
Mochen	(A)	–	1,087,421[130]	1,598.0[134]	68.1	706,721[130]	44.2
Munster	(A)	–	134,530[130]	219.0[134]	61.4	83,273[130]	38.0
Nurnberg/Furth	(A)	–	394,043[130]	669.0[134]	58.9	279,232[130]	41.7
Oberhausen/Muhlheim	(A)	–	199,193[130]	412.0[134]	48.4	155,930[130]	37.9
Stuttgart	(A)	–	551,025[130]	829.0[134]	66.5	338,222[130]	40.8
Wiesbaden	(A)	–	157,484[130]	224.0[134]	70.3	99,726[130]	44.5
Wuppertal	(A)	–	212,556[130]	393.0[134]	54.1	158,461[130]	40.3
GIBRALTAR	–	–	**9,388**	**29.8**	**31.5**	**6,585**	**22.1**
Reporting city accounts for 100.0% of the total telephones. △							
Reporting city accounts for 100.0% of the total main telephones. △							
Reporting city accounts for 100.0% of the total population. △							
Gibraltar[136]	(B)	–[137]	9,388	29.8	31.5	6,585[136]	22.1
GREECE	–	–	**2,796,435**	**9,680.0**	**28.9**	**2,270,406**	**23.5**
Reporting cities account for 70.8% of the total telephones.△							
Reporting cities account for 69.0% of the total main telephones.△							
Reporting cities account for 44.4% of the total population.△							
Athens	(A)	72	1,296,743	2,465.0	52.6	1,018,392	41.3
Chalkis	(A)	1	12,885	44.0	29.3	10,675	24.3
Corfu	(A)	1	24,260	35.5	68.3	12,455	35.1
Heraclion	(A)	2	31,418	107.0	29.4	24,356	22.8
Hrodes	(A)	1	27,710	40.0	69.3	10,024	25.1
Kavala	(A)	1	19,311	55.0	35.1	14,974	27.2
Larisa	(A)	2	29,650	100.0	29.7	23,157	23.2
Patras	(A)	7	53,890	148.0	36.4	44,345	30.0
Piraeus	(A)	8	190,425	505.0	37.7	152,815	30.3
Thessaloniki	(A)	33	249,274	637.0	39.1	218,098	34.2
Volos	(A)	2	27,573	118.0	23.4	23,280	19.7
Yiannina	(A)	1	16,903	43.5	38.9	13,522	31.1
GUERNSEY-CHANNEL ISLANDS	–	–	**37,070**	**56.0**	**66.2**	**22,556**	**40.3**
Reporting city accounts for 41.2% of the total telephones. △							
Reporting city accounts for 34.3% of the total main telephones. △							
Reporting city accounts for 29.5% of the total population. △							
St. Peter Port	(B)	1	15,310	16.5	92.8	7,727	46.8
HUNGARY	–	–	**1,261,295**	**10,713.0**	**11.8**	**617,243**	**5.8**
Reporting cities account for 65.1% of the total telephones.△							
Reporting cities account for 69.4% of the total main telephones.△							
Reporting cities account for 27.4% of the total population.△							
Budapest	(A)	–	672,500	2,064.0	32.6	358,909	17.4
Debrecen	(A)	–	29,410	195.0	15.1	13,756	7.1
Gyor	(A)	–	21,945	125.0	17.6	9,088	7.3
Miskolc	(A)	–	39,540	209.0	18.9	21,500	10.3
Pecs	(A)	–	32,253	171.0	18.9	15,440	9.0
Szeged	(A)	–	25,722	172.0	15.0	9,754	5.7
ICELAND	–	–	**108,767**	**229.2**	**47.5**	**84,837**	**37.0**
Reporting cities account for 68.8% of the total telephones.△							
Reporting cities account for 65.4% of the total main telephones.△							
Reporting cities account for 55.5% of the total population.△							
Akureyri	(B)	–	6,048	13.4	45.1	4,828	36.0
Hafnarfjorour	(A)	–	5,563	12.2	45.6	4,522	37.1
Kopavogur	(A)	–	6,925	13.8	50.2	5,819	42.2
Reykjavik	(A)	–	56,287	87.9	64.0	40,349	45.9
IRELAND	–	–	**650,017**	**3,468.0**	**18.7**	**474,883**	**13.7**
Reporting cities account for 57.4% of the total telephones.△							
Reporting cities account for 58.4% of the total main telephones.△							
Reporting cities account for 35.2% of the total population.△							
Cork	(A)	–	46,035	142.0	32.4	34,227	24.1
Dublin	(A)	–	307,246	1,017.0	30.2	228,436	22.5
Limerick	(A)	–	19,981	63.0	31.7	14,852	23.6
ITALY	–	–	**19,269,340**	**57,140.0**	**33.7**	**13,011,815**	**22.8**
Reporting cities account for 52.4% of the total telephones.△							
Reporting cities account for 50.6% of the total main telephones.△							
Reporting cities account for 36.0% of the total population.△							
Alessandria	(A)	–[154]	52,234	109.0	47.9	34,429	31.6
Ancona	(A)	–[154]	54,966	108.0	50.9	36,251	33.6
Bari	(A)	–[154]	156,255	419.0	37.3	104,087	24.8
Bergamo	(A)	–[154]	132,437	306.0	43.3	81,560	26.7
Biella	(A)	–[154]	56,912	128.0	44.5	37,216	29.1
Bologna	(A)	–[154]	337,973	589.0	57.4	231,424	39.3
Bolzano	(A)	–[154]	73,620	152.0	48.4	44,481	29.3
Brescia	(A)	–[154]	137,047	328.0	41.8	87,251	26.6
Busto Arsizio	(A)	–[154]	64,299	150.0	42.9	39,054	26.0
Cagliari	(A)	–[154]	117,495	308.0	38.2	72,907	23.7
Cantonia	(A)	–[154]	169,556	457.0	37.1	116,322	25.5
Como	(A)	–[154]	88,890	176.0	50.5	56,361	32.0
Ferrara	(A)	–[154]	65,171	159.0	41.0	45,308	28.5
Firenze	(A)	–[154]	358,086	619.0	57.9	236,565	38.2
Forli	(A)	–[154]	53,353	126.0	42.3	36,767	29.2

Table 14: (continued)
Total and Main Telephones in the World's Principal Cities
Reported data as of January 1, 1981

COUNTRY & CITY •	TELEPHONE EXCHANGE GEO. SCOPE	TELEPHONE EXCHANGE NBR.	TOTAL TELE-PHONES	POPULA-TION (000)	TOT. TELS. PER 100 POP.	TOTAL MAIN TELS.	TOT. MAIN TELS./ 100 POP.
World Zone 3 & 4 (Continued)							
ITALY (Continued)							
Gallarate	(A)	—[164]	64,514	167.0	38.6	38,961	23.3
Genova	(A)	—[164]	479,014	823.0	58.2	319,092	38.8
La Spezia	(A)	—[164]	73,640	170.0	43.3	51,845	30.5
Lecce	(A)	—[164]	50,869	156.0	32.6	35,515	22.8
Legnano	(A)	—[164]	68,088	176.0	38.7	42,997	24.4
Livorno	(A)	—[164]	81,813	177.0	46.2	57,515	32.5
Lucca	(A)	—[164]	53,772	139.0	38.7	36,481	26.3
Mantova	(A)	—[164]	52,089	117.0	44.5	30,625	26.2
Messina	(A)	—[164]	92,009	272.0	33.8	64,599	23.8
Milano	(A)	—[164]	1,597,917	2,305.0	69.3	964,170	41.8
Monza	(A)	—[164]	107,201	240.0	44.7	73,035	30.4
Mooena	(A)	—[164]	107,142	227.0	47.2	73,006	32.2
Napoli	(A)	—[164]	577,128	1,664.0	34.7	416,186	25.0
Novara	(A)	—[164]	55,198	116.0	47.6	35,833	30.9
Palermo	(A)	—[164]	264,176	743.0	35.6	189,846	25.6
Parma	(A)	—[164]	92,405	178.0	51.9	62,209	35.0
Pavia	(A)	—[164]	53,979	111.0	48.6	36,641	33.0
Perugia	(A)	—[164]	65,056	152.0	42.8	43,189	28.4
Pescara	(A)	—[164]	77,070	196.0	39.3	49,658	25.3
Piacenza	(A)	—[164]	54,974	116.0	47.4	38,615	33.3
Pisa	(A)	—[164]	55,516	102.0	54.4	33,236	32.6
Podova	(A)	—[164]	183,374	390.0	47.0	106,816	27.4
Prato	(A)	—[164]	78,416	186.0	42.2	52,547	28.3
Ravenna	(A)	—[164]	58,832	141.0	41.7	39,716	28.2
Reggio Di Calabria	(A)	—[164]	53,213	185.0	28.8	38,056	20.6
Reggio Nell'Emilia	(A)	—[164]	73,102	157.0	46.6	47,284	30.1
Rimini	(A)	—[164]	62,284	129.0	48.3	38,411	29.8
Roma	(A)	—[164]	1,625,969	2,942.0	55.3	1,049,751	35.7
Salerno	(A)	—[164]	75,075	246.0	30.5	54,362	22.1
Savona	(A)	—[164]	53,563	114.0	47.0	38,624	33.9
Taranto	(A)	—[164]	79,924	248.0	32.2	56,850	22.9
Torino	(A)	—[164]	837,495	1,480.0	56.6	537,186	36.3
Trento	(A)	—[164]	55,977	121.0	46.3	36,340	30.0
Treviso	(A)	—[164]	70,569	179.0	39.4	44,963	25.1
Trieste	(A)	—[164]	166,203	292.0	56.9	118,169	40.5
Udine	(A)	—[164]	70,721	165.0	42.9	46,075	27.9
Varese	(A)	—[164]	76,940	172.0	44.7	49,477	28.8
Venezia	(A)	—[164]	196,935	399.0	49.4	131,389	32.9
Verona	(A)	—[164]	150,875	340.0	44.4	96,590	28.4
Vicenza	(A)	—[164]	80,753	200.0	40.4	51,524	25.8
JERSEY-CHANNEL ISLANDS	—	—	**52,658**	**76.1**	**69.2**	**31,497**	**41.4**
Reporting city accounts for 63.1% of the total telephones.△							
Reporting city accounts for 61.0% of the total main telephones.△							
Reporting city accounts for 33.8% of the total population.△							
St. Helier	(A)	2	33,204	25.7	129.2	19,217	74.8
LIECHTENSTEIN	—	—	**20,017**	**26.0**	**77.0**	**10,038**	**38.6**
Reporting city accounts for 66.6% of the total telephones.△							
Reporting city accounts for 64.0% of the total main telephones.△							
Reporting city accounts for 54.6% of the total population.△							
Vanduz	(A)	—	13,332	14.2	93.9	6,422	45.2

COUNTRY & CITY •	TELEPHONE EXCHANGE GEO. SCOPE	TELEPHONE EXCHANGE NBR.	TOTAL TELE-PHONES	POPULA-TION (000)	TOT. TELS. PER 100 POP.	TOTAL MAIN TELS.	TOT. MAIN TELS./ 100 POP.
LUXEMBOURG[103]	—	—	n.r.[103]	363.0	—	n.r.[103]	—
Reporting cities accoupt for —% of the total telephones.△							
Reporting cities account for —% of the total main telephones.△							
Reporting cities account for 29.5% of the total population.△							
Esch-Al Zette	(A)[761]	—	n.r.[103]	27.0[761]	—	n.r.[103]	—
Luxembourg	(A)[761]	—	n.r.[103]	80.0[761]	—	n.r.[103]	—
MALTA	—	—	**82,735**	**316.0**	**26.2**	**53,669**	**17.0**
Reporting city accounts for 10.2% of the total telephones.△							
Reporting city accounts for —% of the total main telephones.△							
Reporting city accounts for 4.4% of the total population.△							
Valletta	(A)	2	8,429	14.0*	60.2	n.a.	—
MONACO[782]	—	—	n.r.[782]	28.0[765]	—	n.r.	—
Reporting city accounts for —% of the total telephones.△							
Reporting city accounts for —% of the total main telephones.△							
Reporting city accounts for 100.0% of the total population.△							
Monaco[764]	—	—	n.r.	28.0[765]	—	n.r.	—
NETHERLANDS	—	—	**7,230,000**	**14,207.0**	**50.9**	**5,039,000**	**35.5**
Reporting cities account for —% of the total telephones.△							
Reporting cities account for 34.6% of the total main telephones.△							
Reporting cities account for 28.7% of the total population.△							
Amsterdam	—	555,750	—[487]	727.0	76.4	344,707	47.4
Apeldoorn	—	83,650	—[487]	141.0	59.3	47,506	33.7
Arnhem	(A)	85,250	—[487]	129.0	73.8	59,528	46.1
Breda	—	78,350	—[487]	117.0	67.0	50,534	43.2
Dordrecht	—	57,250	—[487]	108.0	53.0	39,823	36.9
Eindhoven	—	129,350	—[487]	196.0	66.0	76,353	39.0
Enschede	—	71,500	—[487]	144.0	49.7	49,325	34.3
Groningen	—	106,700	—[487]	163.0	65.5	66,997	41.1
Haarlem	(A)	130,250	—[487]	202.0	64.5	71,400	35.3
Lieden	(A)	79,800	—[487]	140.0	57.0	51,001	36.4
Maastricht	—	56,806	—[487]	110.0	51.6	38,406	34.9
Nijmegen	—	89,050	—[487]	147.0	60.6	55,380	37.6
Rotterdam	(A)	446,400	—[487]	651.0	68.6	292,987	45.0
S'Gravenhage	(A)	365,000	—[487]	553.0	66.0	241,912	43.7
Tilburg	—	89,100	—[487]	153.0	58.2	51,587	33.7
Utrecht	(A)	182,600	—[487]	269.0	67.9	107,939	40.1
Zaanstad	—	66,200	—[487]	130.0	50.9	47,029	36.2
NORWAY	—	—	**1,851,683**	**4,092.5**	**45.3**	**1,085,415**	**26.5**
Reporting cities account for 47.9% of the total telephones.△							
Reporting cities account for —% of the total main telephones.△							
Reporting cities account for 34.7% of the total population.△							
Aslesund	(B)	—	17,273	35.0	49.4	n.a.	—
Bergen	(B)	—	115,261	208.0	55.4	n.a.	—
Bode	(B)	—	15,303	33.0	46.4	n.a.	—
Drammen	(B)	—	26,199	50.0	52.4	n.a.	—
Fredrikstad	(B)	—	14,677	28.0	52.4	n.a.	—
Gjovik	(B)	—	10,239	26.0	39.4	n.a.	—
Halden	(B)	—	11,060	27.0	41.0	n.a.	—
Haugesound	(B)	—	13,654	27.0	50.6	n.a.	—
Kristiansand	(B)	—	30,976	61.0	50.8	n.a.	—
Moss	(B)	—	12,003	25.0	48.0	n.a.	—
Oslo	(B)	—	405,135	452.0	89.6	n.a.	—
Poragrunn	(B)	—	15,872	31.0	51.2	n.a.	—
Ringerike	(B)	—	9,953	27.0	36.9	n.a.	—

COUNTRY & CITY •	TELEPHONE EXCHANGE GEO.[8] SCOPE	NBR.	TOTAL TELE-PHONES	POPULA-TION (000)	TOT. TELS. PER 100 POP.	TOTAL MAIN TELS.	TOT. MAIN TELS./ 100 POP.
World Zone 3 & 4 (Continued)							
NORWAY (Continued)							
Sandefjord	(B)	–	15,821	35.0	45.2	n.a.	–
Sandnes	(B)	–	13,419	37.0	36.3	n.a.	–
Skien	(B)	–	19,372	47.0	41.2	n.a.	–
Stavanger	(B)	–	50,324	91.0	55.3	n.a.	–
Tromso	(B)	–	20,388	46.0	44.3	n.a.	–
Trondheim	(B)	–	69,383	135.0	51.4	n.a.	–
POLAND	–	–	**3,387,396**	**35,735.0**	**9.5**	**1,865,269**	**5.2**
Reporting cities account for 38.3% of the total telephones.Δ							
Reporting cities account for –% of the total main telephones.Δ							
Reporting cities account for 16.4% of the total population.Δ							
Bydgoszcz (Bromberg)	(B)	–	61,500	349.0	17.6	–	–
Gdansk (Danzig)	(B)	–	75,500	457.0	16.5	–	–
Katowice (Kattowitz)	(B)	–	78,259	355.0	22.0	–	–
Krakow (Cracow)	(B)	–	112,556	716.0	15.7	–	–
Lodz	(B)	–	156,600	836.0	18.7	–	–
Poznan (Posen)	(B)	–	121,516	553.0	22.0	–	–
Szczecin (Stettin)	(B)	–	69,300	388.0	17.9	–	–
Warszawa (Warsaw)	(B)	–	506,000	1,596.0	31.7	–	–
Wroclaw	(B)	–	115,500	618.0	18.7	–	–
PORTUGAL	–	–	**1,371,731**	**9,966.0**	**13.8**	**989,470**	**9.9**
Reporting cities account for 73.7% of the total telephones.Δ							
Reporting cities account for 72.0% of the total main telephones.Δ							
Reporting cities account for 17.9% of the total population.Δ							
Braga	(B)	–	10,431	111.0	9.4	7,049	6.4
Coimbra	(A)	–	21,793	128.6	17.0	15,740	12.2
Faro	(B)	–	8,797	35.0	25.1	5,991	17.1
Funchal	(A)	–	21,231	114.5	18.5	14,967	13.1
Lisboe	(A)	–	686,726	890.0	77.2	482,238	54.2
Ponta Delgada	(A)	–	9,214	78.3	11.8	5,747	7.3
Porto	(A)	–	241,385	351.7	68.6	171,530	48.8
Setubal	(B)	–	11,904	74.7	15.9	9,321	12.5
ROMANIA[155]	–	–	n.r.[159]	**21,855.0**[2]	–	n.r.	–
Reporting cities account for –% of the total telephones.Δ							
Reporting cities account for –% of the total main telephones.Δ							
Reporting cities account for 15.8% of the total population.Δ							
Brasov	–	–	n.r.	262.0[2]	–	n.r.	–
Bucharest	–	–	n.r.	2,100.0[2]	–	n.r.	–
Cluj-Napoca	–	–	n.r.	262.4[2]	–	n.r.	–
Constanta	–	–	n.r.	290.2[32]	–	n.r.	–
Iasi	–	–	n.r.	248.3[2]	–	n.r.	–
Timisoara	–	–	n.r.	282.7[2]	–	n.r.	–
‡SAN MARINO	–	–	**7,685**	**21.5**[167]	**35.7**	–	–
Reporting city accounts for 100.0% of the total telephones.Δ							
Reporting city accounts for –% of the total main telephones.Δ							
Reporting city accounts for 100.0% of the total population.Δ							
San Marino[172]	(A)	–	7,685	21.5	35.7	4,942	23.0
SPAIN	–	–	**11,844,623**	**38,208.5**	**31.0**	**6,871,519**	**18.0**
Reporting cities account for 39.0% of the total telephones.Δ							
Reporting cities account for 40.3% of the total main telephones.Δ							
Reporting cities account for 21.0% of the total population.Δ							
Barcelona	(B)	28	1,285,491	1,820.0	70.6	758,701	41.7
Bilbao	(B)	16	378,342	462.3	81.8	244,146	52.8
Madrid	(B)	60	1,896,903	3,350.0	56.6	1,115,156	33.3
Palma Mallorca	(A)	7	170,720	333.1	51.3	90,906	27.3
Sevilla	(B)	11	251,818	644.0	39.1	151,010	23.5
Valencia	(B)	11	393,556	786.9	50.0	238,093	30.3
Zaragoza	(A)	8	239,483	608.5	39.4	168,045	27.6

COUNTRY & CITY •	TELEPHONE EXCHANGE GEO.[8] SCOPE	NBR.	TOTAL TELE-PHONES	POPULA-TION (000)	TOT. TELS. PER 100 POP.	TOTAL MAIN TELS.	TOT. MAIN TELS./ 100 POP.
SWEDEN	–	–	**6,621,000**	**8,317.9**	**79.6**	**4,400,000**	**52.9**
Reporting cities account for 42.6% of the total telephones.Δ							
Reporting cities account for 43.6% of the total main telephones.Δ							
Reporting cities account for 35.7% of the total population.Δ							
Boras	(A)	–	78,081	102.0	76.6	57,618	56.5
Eskilstuna	(A)	–	68,372	90.0	76.0	49,325	54.8
Gavle	(A)	–	70,513	87.0	81.1	50,369	57.9
Goteborg	(A)	–	425,326	431.0	98.7	293,516	65.8
Halmstad	(A)	–	61,153	76.0	80.5	44,250	58.2
Helsingborg	(A)	–	84,660	102.0	83.0	60,198	59.0
Jonkoping	(A)	–	84,100	108.0	77.9	59,997	55.6
Karlstad	(A)	–	72,146	74.0	97.5	50,835	68.7
Linkoping	(A)	–	91,438	113.0	80.9	66,050	58.5
Lund	(A)	–	70,257	78.0	90.1	46,459	59.6
Malmo	(A)	–	222,889	234.0	95.3	152,398	65.1
Norrkoping	(A)	–	94,858	119.0	79.7	70,606	59.3
Orebro	(A)	–	97,525	117.0	83.4	71,235	60.9
Skelleftea	(A)	–	53,335	74.0	72.1	40,727	55.0
Sodertalje	(A)	–	56,846	80.0	71.1	41,427	51.8
Stockholm	(A)	–	833,907	647.0	128.9	518,538	80.1
Sundsvall	(A)	–	76,184	95.0	80.2	57,029	60.0
Umea	(A)	–	66,903	81.0	82.6	47,601	58.8
Uppsala	(A)	–	120,896	146.0	82.8	87,331	59.8
Vasteras	(A)	–	93,529	117.0	79.9	63,681	54.4
SWITZERLAND	–	–	**4,612,382**	**6,366.0**	**72.5**	**2,839,461**	**44.6**
Reporting cities account for 45.3% of the total telephones.Δ							
Reporting cities account for 42.2% of the total main telephones.Δ							
Reporting cities account for 39.0% of the total population.Δ							
Aarau	(A)	–	54,888	78.8	69.7	32,867	41.7
Basel	(A)	–	295,716	290.9	101.7	157,980	54.3
Berne	(A)	–	224,097	356.1	62.9	128,763	36.2
Biel	(A)	–	60,849	239.0	25.5	40,177	16.8
Freiburg	(A)	–	37,071	81.1	45.7	21,384	26.4
Geneva	(A)	–	332,899	294.4	113.1	186,715	63.4
La Chaux-De-Fonds	(B)	–	26,070	37.8	69.0	17,151	45.4
Lausanne	(A)	–	171,572	208.0	82.5	109,404	52.6
Lucerne	(A)	–	116,058	158.6	73.2	70,735	44.6
Lugano	(A)	–	71,529	74.8	95.6	41,133	55.0
Neuchatel	(A)	–	40,019	54.6	73.3	25,614	46.9
Solothurn	(B)	–	48,911	44.9	108.9	30,711	68.4
St. Gallen	(A)	–	72,229	84.0	86.0	43,917	52.3
Winterthur	(A)	–	73,888	91.9	80.4	44,450	48.4
Zurich	(A)	–	462,739	385.0	120.2	247,843	64.4
UNITED KINGDOM[325]	–	–	**27,784,447**	**55,938.0**	**49.7**	**18,542,989**	**33.2**
Reporting cities account for 37.3% of the total telephones.Δ							
Reporting cities account for 34.5% of the total main telephones.Δ							
Reporting cities account for 29.3% of the total population.Δ							
Belfast	(B)	11	170,026	367.2	46.3	104,943	28.6
Birmingham	(A)	29	504,279	1,074.0	47.0	322,498	30.0
Bolton	(B)	4	92,924	262.5	35.4	74,588	28.4
Bradford	(B)	12	161,627	463.1	34.9	113,075	24.4
Bristol	(B)	16	250,075	418.1	59.8	157,596	37.7
Cardiff	(B)	8	154,095	283.8	54.3	91,992	32.4
Coventry	(B)	13	179,036	341.1	52.5	96,943	28.4
Derby	(B)	11	113,721	218.4	52.1	79,394	36.4
Edinburgh	(A)	21	269,356	470.1	57.3	164,326	35.0
Glasgow	(A)	25	375,937	817.7	46.0	247,261	30.2
Kingston-Upon-Hull	–	–	177,121	278.1	63.7	125,455	45.1
Leeds	(B)	16	185,622	748.1	24.8	148,150	19.8
Leicester	(B)	19	174,279	278.2	62.7	116,425	41.9
Liverpool	(B)	81	603,609	534.7	112.9	421,320	78.8
London	(A)	184	5,620,694	6,928.3	81.1	3,202,062	46.2

Table 14: (continued)
Total and Main Telephones in the World's Principal Cities
Reported data as of January 1, 1981

COUNTRY & CITY *	TELEPHONE EXCHANGE GEO. [8] SCOPE	TELEPHONE EXCHANGE NBR.	TOTAL TELE-PHONES	POPULA-TION (000)	TOT. TELS. PER 100 POP.	TOTAL MAIN TELS.	TOT. MAIN TELS./ 100 POP.
World Zone 3 & 4 (Continued)							
UNITED KINGDOM (Continued)							
Manchester	(A)	14	276,900	491.4	56.4	184,555	37.6
Newcastle-Upon-Tyne	(B)	8	83,499	291.5	28.6	60,553	20.8
Nottingham	(B)	22	250,150	283.7	88.2	161,943	57.1
Plymouth	(B)	10	80,757	261.3	30.9	60,144	23.0
Shefield	(B)	19	260,265	557.1	46.7	180,918	32.5
Southhampton	(B)	6	104,784	210.7	49.7	65,358	31.0
Stoke-On Trent	(B)	11	124,893	259.1	48.2	90,701	35.0
Sunderland	(B)	10	94,501	307.9	30.7	72,849	23.7
Wolverhampton	(B)	6	66,986	263.4	25.4	50,720	19.3
YUGOSLAVIA	–	–	**2,133,225**	**22,262.0**	**9.6**	**1,556,274**	**7.0**
Reporting cities account for 38.3% of the total telephones.Δ							
Reporting cities account for –% of the total main telephones.Δ							
Reporting cities account for 17.7% of the total population.Δ							
Beograd	–	–	294,662	1,455.0	20.3	–	–
Ljubljana	–	–	114,200	303.0	37.7	–	–
Novi Sad	–	–	52,145	258.0	20.2	–	–
Rijeka	–	–	39,454	192.0	20.6	–	–
Sarajevo	–	–	89,607	448.0	20.0	–	–
Skoplje	–	–	56,166	503.0	11.2	–	–
Zagreb	–	–	171,585	787.0	21.8	–	–

Summary

Data for reporting cities in World Zones 3 & 4 account for 39.8% of the total telephones; 35.9% of the total main telephones and 25.3% of the total population for the Zone.

World Zone 5

COUNTRY & CITY *	TELEPHONE EXCHANGE GEO. [8] SCOPE	TELEPHONE EXCHANGE NBR.	TOTAL TELE-PHONES	POPULA-TION (000)	TOT. TELS. PER 100 POP.	TOTAL MAIN TELS.	TOT. MAIN TELS./ 100 POP.
ARGENTINA	–	–	**2,880,754**	**27,863.0**	**10.3**	**2,023,432**	**7.3**
Reporting cities account for 100.4% of the total telephones.Δ							
Reporting cities account for 118.1% of the total main telephones.Δ							
Reporting cities account for 64.5% of the total population.Δ							
Bahia Blanca	–	5	31,332	182.2 [205]	17.2	25,669	14.1
Buenos Aires (Greater) [20a]	–	172	1,403,976	10,981.0 [205]	12.8	1,178,160	10.7
Cap. Federal	–	95	917,547	2,972.5 [205]	30.9	755,859	25.4
Cordoba	–	10	77,596	781.6 [205]	9.9	65,226	8.4
Corrientes	–	21	12,979	136.9 [205]	9.5	9,830	7.2
La Plata	–	5	57,299	391.2 [205]	14.7	46,557	11.9
Mar Del Plata	–	9	61,612	302.3 [205]	20.4	51,243	17.0
Mendoza	–	8	62,671	118.6 [205]	52.8	46,124	38.9
Mercedes (BS. AS.)	–	1	5,047	16.9 [205]	29.9	4,121	24.4
Parana	–	3	16,155	27.6 [205]	15.0	13,956	10.9
Posadas	–	1	8,001	70.7 [205]	11.3	5,948	8.4
Resistencia	–	1	12,324	142.8 [205]	8.6	9,374	6.6
Rosario	–	10	94,226	750.5 [205]	12.6	76,805	10.2
S. Del Estero	–	2	10,494	105.2 [205]	10.0	7,942	7.6
S. M. Del Tucuman	–	4	39,399	321.6 [205]	12.3	30,266	9.4
Salta	–	3	20,945	176.2 [205]	11.9	15,588	8.9
San Juan	–	3	19,891	112.6 [205]	17.7	14,035	12.5
San Nicolas	–	1	6,407	25.0 [205]	25.6	5,441	21.8
Santa Fe	–	5	31,873	244.7 [205]	13.0	28,182	11.5
BELIZE	–	–	**6,250**	**145.3**	**4.3**	**3,847**	**2.7**
Reporting cities account for 100.0% of the total telephones.Δ							
Reporting cities account for 101.3% of the total main telephones.Δ							
Reporting cities account for 84.7% of the total population.Δ							
Belize	(A)	3	4,390	49.4	8.9	2,790	5.7
Belmopan	(A)	1	697	2.9	24.0	293	10.1
Benque Viejc	(B)	1	53	2.4	2.2	50	2.1
Corozal	(A)	1	322	22.9	1.4	216	0.9
Dangrigo	(A)	1	170	14.2	1.2	104	0.7
Independence	(A)	1	46	1.0	4.6	35	3.5
Orange Walk	(A)	1	276	22.9	1.2	192	0.8
Punta Gorda	(A)	1	104	1.8	5.8	82	4.6
San Ignacio	(A)	1	192	5.6	3.4	136	2.4
BOLIVIA	–	–	**135,100**	**5,137.0**	**2.6**	**135,100**	**2.6**
Reporting cities account for –% of the total telephones.Δ							
Reporting cities account for 100.0% of the total main telephones.Δ							
Reporting cities account for 146.0% of the total population.Δ							
Camiri	(B)	1	–	–	–	800	–
Cobija	(B)	1	–	–	–	300	–
Cochabamba	(A)	3	–	160.0 [2]	–	18,500	11.6
Guayaramerin	(B)	1	–	–	–	600	–
La Paz	(B)	14	–	7,000.0 [2]	–	57,000	0.8
Montero	(B)	1	–	–	–	1,000	–
Oruro	(B)	2	–	93.0 [2]	–	9,000	9.7
Otros	–	–	–	–	–	700	–
Potosi	(B)	1	–	69.0 [2]	–	5,300	7.7
Riberalta	(B)	1	–	–	–	600	–
Santa Cruz	(B)	2	–	130.0 [2]	–	31,000	23.9
Sucre	(B)	1	–	48.0 [2]	–	5,000	10.4
Tarija	(B)	1	–	–	–	4,000	–
Trinidad	(B)	1	–	–	–	800	–
Tupiza	(B)	1	–	–	–	400	–
Villazon	(B)	1	–	–	–	100	–
BRAZIL	–	–	**7,496,000**	**119,670.0**	**6.3**	**4,703,305**	**3.9**
Reporting cities account for 65.7% of the total telephones.Δ							
Reporting cities account for 69.3% of the total main telephones.Δ							
Reporting cities account for 27.5% of the total population.Δ							
Belem	–	7	66,332	949.0	7.0	43,872	4.6
Brasilia	–	27	205,988	1,803.0	11.4	131,851	7.3
Campinas	–	9	112,410	680.0	16.5	72,811	10.7
Contagem	–	3	43,114	284.0	15.2	13,500	4.8
Curitiba	–	41	385,386	1,052.0	36.6	277,312	26.4
Florianopolis	–	6	46,822	196.0	23.9	24,965	12.7
Fortaleza	–	9	93,375	1,339.0	7.0	65,451	4.9
Goiania	–	8	83,024	738.0	11.3	50,769	6.9
Guarulhos	–	2	30,041	539.0	5.6	19,094	3.5
Joao Pessoa	–	4	30,277	339.0	8.9	21,517	6.4
Juiz De Fora	–	3	29,357	318.0	9.2	23,564	7.4
Jundiai	–	3	26,484	262.0	10.1	17,885	6.8
Londrina	–	3	27,573	309.0	8.9	13,555	4.4
Manaus	–	3	53,778	643.0	8.4	26,146	4.1
Natal	–	1	28,657	429.0	6.7	19,722	4.6
Niteroi	–	7	66,418	408.0	16.3	44,088	10.8

COUNTRY & CITY *	TELEPHONE EXCHANGE GEO. SCOPE [8]	TELEPHONE EXCHANGE NBR.	TOTAL TELE-PHONES	POPULATION (000)	TOT. TELS. PER 100 POP.	TOTAL MAIN TELS.	TOT. MAIN TELS./ 100 POP.
World Zone 5 (Continued)							
BRAZIL (Continued)							
Petropolis	–	6	24,486	247.0	9.9	17,834	7.2
Piracicaba	–	3	30,536	218.0	14.0	19,676	9.0
Porto Alegre	–	33	180,927	1,159.0	15.6	94,100	8.1
Recife	–	13	115,926	1,241.0	9.3	70,784	5.7
Relo Horizonte	–	123	246,029	1,815.0	13.6	185,098	10.2
Ribeirao Preto	–	6	38,906	327.0	11.9	22,826	7.0
Rio De Janeiro	–	99	955,893	5,184.0	18.4	668,281	12.9
S. Caetano Sul	–	3	33,826	165.0	20.5	21,813	13.2
S. J. Campos	–	4	37,326	292.0	12.8	24,101	8.3
S. B. Campo	–	8	71,092	430.0	16.5	41,935	9.8
S. J. Rio Preto	–	3	26,133	193.0	13.5	16,619	8.6
Salvador	–	12	141,493	1,526.0	9.3	85,451	5.6
Santo Andre	–	6	77,315	557.0	13.9	53,736	9.7
Santos	–	11	100,993	425.0	23.8	69,537	16.4
Sao Paulo	–	110	1,467,697	8,585.0	17.1	974,333	11.4
Victoria	–	4	44,568	215.0	20.7	25,825	12.0
CHILE	–	–	**569,969**	**11,372.0**	**5.0**	**363,039**	**3.2**
Reporting cities account for 88.4% of the total telephones.△							
Reporting cities account for 90.8% of the total main telephones.△							
Reporting cities account for 54.7% of the total population.△							
Antofagasta	(A)	1	8,055	165.0	4.9	4,868	3.0
Arica	(A)	2	6,464	130.0	5.0	3,978	3.1
Chillan	(A)	1	5,055	111.0	4.6	3,092	2.8
Concepcion	(A)	3	18,992	213.0	8.9	11,058	5.2
Iquique	(A)	1	6,005	84.0	7.2	3,963	4.7
La Serena	(A)	1	4,635	83.0	5.6	3,015	3.6
Los Angeles	(A)	1	3,450	65.0	5.3	2,110	3.3
Osorno	(A)	1	4,752	84.0	5.7	3,065	3.7
Puerto Montt	(A)	1	2,965	84.0	3.5	2,284	2.7
Punta Arenas	(A)	1	7,759	78.0	10.0	4,627	5.9
Rancagua	(A)	1	7,383	118.0	6.3	5,102	4.3
Santiago	(A)	34	359,721	3,899.0	9.2	238,047	6.1
Talca	(A)	1	6,432	124.0	5.2	4,077	3.3
Talcahuano	(A)	1	3,647	201.0	1.8	2,025	1.0
Temuco	(A)	1	8,433	146.0	5.8	5,089	3.5
Valdivia	(A)	1	4,313	105.0	4.1	3,017	2.9
Valparaiso	(A)	2	21,384	273.0	7.8	13,038	4.8
Vina Del Mar	(A)	4	24,276	257.0	9.5	17,087	6.7
COLOMBIA	–	–	**1,623,105**	**27,122.0**	**6.0**	**1,322,285**	**4.9**
Reporting cities account for –% of the total telephones.△							
Reporting cities account for 92.5% of the total main telephones.△							
Reporting cities account for 46.0% of the total population.△							
Armenia	–	–	–	174.0	–	8,500	4.9
Barrancabermeja	–	–	–	123.0	–	2,900	2.4
Barranquilla	–	–	–	982.0	–	80,000	8.2
Bogota	–	–	–	4,268.0	–	587,000	13.8
Bucaramanga	–	–	–	488.0	–	31,200	6.4
Buga	–	–	–	89.0	–	7,800	8.8
Cali	–	–	–	1,413.0	–	110,600	7.8
Cartagena	–	–	–	412.0	–	14,200	3.5
Cartago	–	–	–	87.0	–	6,400	7.4
Cucuta	–	–	–	317.0	–	15,000	4.7
Girardot	–	–	–	86.0	–	5,000	5.8
Ibague	–	–	–	246.0	–	7,000	2.9
Manizales	–	–	–	260.0	–	21,600	8.3
Medellin	–	–	–	2,082.0	–	256,000	12.3
Monteria	–	–	–	127.0	–	4,800	3.8
Neiva	–	–	–	148.0	–	8,000	5.4
Palmira	–	–	–	186.0	–	10,550	5.7
Pasto	–	–	–	156.0	–	4,000	2.6
Pereira	–	–	–	271.0	–	24,250	9.0
Popayan	–	–	–	101.0	–	4,000	4.0
Santa Marta	–	–	–	137.0	–	5,000	3.7
Tulua	–	–	–	137.0	–	2,800	2.0
Tunja	–	–	–	66.0	–	3,200	4.9
Villavicencio	–	–	–	124.0	–	3,100	2.5
COSTA RICA	–	–	**236,132**	**2,277.5**	**10.4**	**151,061**	**6.6**
Reporting cities account for 86.3% of the total telephones.△							
Reporting cities account for 89.9% of the total main telephones.△							
Reporting cities account for 42.6% of the total population.△							
Alajuela	–	–	11,355	106.8	10.6	7,570	7.1
Area Metropolitana [220]	–	–	160,659	575.3	27.9	107,106	18.6
Cartago	–	–	9,974	97.9	10.2	6,649	6.8
Heredia	–	–	13,230	83.1	15.9	8,820	10.6
Liberia	–	–	2,160	19.3	11.2	1,440	7.5
Limon	–	–	3,048	47.0	6.5	2,032	4.3
Puntarenas	–	–	3,285	39.8	8.3	2,190	5.5
CUBA [210]	–	–	**n.r.** [210]	**9,728.0** [211]	–	**n.r.**	–
Reporting cities account for –% of the total telephones.△							
Reporting cities account for –% of the main telephones.△							
Reporting cities account for 25.4% of the total population.△							
Havana	–	–	n.r.	1,986.5 [213]	–	n.r.	–
Santa Clara	–	–	n.r.	154.2 [213]	–	n.r.	–
Santiago De Cuba	–	–	n.r.	333.6 [213]	–	n.r.	–
EQUADOR [417]	–	–	**n.r.** [417]	**7,600.0** [555]	–	**n.r.**	–
Reporting cities account for –% of the total telephones.△							
Reporting cities account for –% of the total main telephones.△							
Reporting cities account for 44.8% of the total population.△							
Ambato	–	–	n.r.	96.5 [557]	–	n.r.	–
Azoguez	–	–	n.r.	12.7 [557]	–	n.r.	–
Babahoyo	–	–	n.r.	36.7 [557]	–	n.r.	–
Cuenca	–	–	n.r.	133.0 [557]	–	n.r.	–
Esmeraldes	–	–	n.r.	82.9 [557]	–	n.r.	–
Guaranda [417]	–	–	n.r.	13.1 [557]	–	n.r.	–
Guayaquil	–	–	n.r.	1,670.0 [557]	–	n.r.	–
Ibarra	–	–	n.r.	52.1 [557]	–	n.r.	–
Latacunga	–	–	n.r.	26.8 [557]	–	n.r.	–
Loja	–	–	n.r.	59.4 [557]	–	n.r.	–
Machala	–	–	n.r.	100.4 [557]	–	n.r.	–
Manta	–	–	n.r.	85.1 [557]	–	n.r.	–
Portoviejo	–	–	n.r.	80.3 [557]	–	n.r.	–
Quevedo	–	–	n.r.	63.8 [557]	–	n.r.	–
Quito [417]	–	–	n.r.	773.8 [557]	–	n.r.	–
Rio'Bamba	–	–	n.r.	69.3 [557]	–	n.r.	–
Salinas	–	–	n.r.	17.4 [557]	–	n.r.	–
Tulcan	–	–	n.r.	29.8 [557]	–	n.r.	–
EL SALVADOR	–	–	**75,920**	**4,797.0**	**1.6**	**65,661**	**1.4**
Reporting cities account for 100.0% of the total telephones.△							
Reporting cities account for 100.0% of the total main telephones.△							
Reporting cities account for 36.7% of the total population.△							
Ahuachapan	(A)	–	600	70.5	0.9	577	0.8
Chalchuapa	(A)	–	400	53.6	0.8	387	0.7
Cojutepeque	(A)	–	400	32.5	1.2	378	1.2
Gotera	(A)	–	200	12.7	1.6	180	1.4
Itobasco	(A)	–	200	50.1	0.4	187	0.4
Jiquilisco	(A)	–	200	53.8	0.4	172	0.3
La Union	(A)	–	400	47.0	0.9	362	0.8
Opico	(A)	–	200	46.7	0.4	137	0.3
San Miguel	(A)	–	3,000	159.9	1.9	2,000	1.3
San Salvador	(A)	–	54,000	504.9	10.7	47,226	9.4

Table 14: (continued)
Total and Main Telephones in the World's Principal Cities
Reported data as of January 1, 1981

COUNTRY & CITY •	TELEPHONE EXCHANGE GEO. SCOPE	TELEPHONE EXCHANGE NBR.	TOTAL TELEPHONES	POPULATION (000)	TOT. TELS. PER 100 POP.	TOTAL MAIN TELS.	TOT. MAIN TELS./ 100 POP.
World Zone 5 (Continued)							
EL SALVADOR (Continued)							
San Vincente	(A)	–	600	60.7	1.0	403	0.7
Santa Ana	(A)	–	4,000	200.0	2.0	3,819	1.9
Santa Tecla	(A)	–	3,000	72.0	4.2	2,956	4.1
Sensuntepeque	(A)	–	200	49.0	0.4	191	0.4
Sonsonate	(A)	–	2,000	68.2	2.9	1,699	2.5
Soyapango	(A)	–	5,000	64.3	7.8	3,530	5.5
Sta. Rosa De Lima	(A)	–	200	30.4	0.7	181	0.6
Suchitoto	(A)	–	120	43.5	0.3	112	0.3
Usulutan	(A)	–	600	61.5	1.0	586	1.0
Zacatecoluca	(A)	–	600	77.4	0.8	578	0.8
‡FALKLAND ISLANDS [340]	–	–	n.r. [340]	2.0 [7]	–	n.r.	–
Reporting area accounts for –% of the total telephones.△							
Reporting area accounts for –% of the total main telephones.△							
Reporting area accounts for –% of the total population.△							
Port Stanley	–	–	n.r.	–	–	n.r.	–
FRENCH GUIANA	–	–	18,134	70.0	25.9	11,227	16.0
Reporting cities account for 84.2% of the total telephones.△							
Reporting cities account for 78.2% of the total main telephones.△							
Reporting cities account for 50.7% of the total population.△							
Cayenne	(A)	1	12,417	30.5	40.7	7,411	24.3
Kourou	(A)	1	2,851	5.0	57.0	1,367	27.3
GUADELOUPE	–	–	50,207	320.0	15.7	34,508	10.8
Reporting cities account for 59.7% of the total telephones.△							
Reporting cities account for 55.7% of the total main telephones.△							
Reporting cities account for 29.3% of the total population.△							
Basse Terre	(A)	1	6,296	15.8	39.9	3,781	23.9
Pointe A Pitre	(A)	2	23,682	78.0	30.4	15,424	19.8
GUATEMALA	–	–	81,622	5,160.2	1.6	80,143	1.6
Reporting cities account for 100.0% of the total telephones.△							
Reporting cities account for –% of the total main telephones.△							
Reporting cities account for 52.8% of the total population.△							
Amatitlan	–	–	381	329.3	0.1	–	–
Antigua	–	–	586	31.2	1.9	–	–
Chichicastenango	–	–	92	55.1	0.2	–	–
Chimaltenango	–	–	367	24.8	1.5	–	–
Chiquimula	–	–	496	41.1	1.2	–	–
Coatepeque	–	–	458	49.1	0.9	–	–
Coban A.V.	–	–	534	48.0	1.1	–	–
Escuintla	–	–	715	73.5	1.0	–	–
Esquipulas	–	–	68	21.3	0.3	–	–
Guatemala	–	–	69,408	821.4	8.5	–	–
Huehuetenango	–	–	459	35.4	1.3	–	–
Jalapa	–	–	221	46.2	0.5	–	–
Jutiapa	–	–	295	67.2	0.4	–	–
Mazatenango	–	–	679	40.8	1.7	–	–
Mixco	–	–	586	345.5	0.2	–	–
Morales	–	–	153	70.7	0.2	–	–
Panajachel	–	–	253	3.7	6.8	–	–
Peten	–	–	184	15.8	1.2	–	–
Progreso	–	–	138	12.3	1.1	–	–
Pto. Barrios	–	–	653	45.0	1.5	–	–
GUATAMALA (Continued)							
Quezaltenango	–	–	1,653	73.2	2.3	–	–
Quiche	–	–	245	39.3	0.6	–	–
Retalhuleu	–	–	507	40.4	1.3	–	–
Salama	–	–	82	24.8	0.3	–	–
San Lucas	–	–	139	5.2	2.7	–	–
San Marcos	–	–	436	18.1	2.4	–	–
San Jose Pinula	–	–	67	15.6	0.4	–	–
San Juan Sac.	–	–	102	49.9	0.2	–	–
St. Lucia Cotz.	–	–	311	34.0	0.9	–	–
Tiquisate	–	–	289	64.8	0.5	–	–
Totonicanan	–	–	73	61.6	0.1	–	–
Villa Nueva	–	–	477	83.1	0.6	–	–
Zacapa	–	–	515	37.4	1.4	–	–
GUYANA [445]	–	–	n.r. [445]	800.0 [7]	–	n.r.	–
Reporting cities account for –% of the total telephones.△							
Reporting cities account for –% of the total main telephones.△							
Reporting cities account for 27.1% of the total population.△							
Georgetown	–	–	n.r.	167.0 [7]	–	n.r.	–
Linden	–	–	n.r.	30.0 [7]	–	n.r.	–
New Amsterdam	–	–	n.r.	20.0 [7]	–	n.r.	–
HAITI [126]	–	–	n.r. [126]	5,500.0 [126]	–	n.r.	–
Reporting cities account for –% of the total telephones.△							
Reporting cities account for –% of the total main telephones.△							
Reporting cities account for 16.8% of the total population.△							
Cap-Haitien	–	–	n.r.	60.0 [126]	–	n.r.	–
Cayes	–	–	n.r.	30.0 [126]	–	n.r.	–
Gonaines	–	–	n.r.	39.0 [126]	–	n.r.	–
Jacmel	–	–	n.r.	20.0 [126]	–	n.r.	–
Jeremie	–	–	n.r.	22.0 [126]	–	n.r.	–
Port-Au-Prince	–	–	n.r.	750.0 [126]	–	n.r.	–
HONDURAS	–	–	n.r.	2,656.9	–	n.r.	–
Reporting cities account for –% of the total telephones.△							
Reporting cities account for –% of the total main telephones.△							
Reporting cities account for 24.1% of the total population.△							
Chinuleca	(S) [737]	–	n.r.	26.2 [737]	–	n.r.	–
Comayagua	(S) [737]	–	n.r.	15.9 [737]	–	n.r.	–
Danli	(S) [737]	–	n.r.	10.8 [737]	–	n.r.	–
El Progreso	(S) [737]	–	n.r.	28.1 [737]	–	n.r.	–
Juticolpe	(S) [737]	–	n.r.	10.1 [737]	–	n.r.	–
La Ceiba	(S) [737]	–	n.r.	38.8 [737]	–	n.r.	–
La Lima	(S) [737]	–	n.r.	14.6 [737]	–	n.r.	–
Puerto Cortes	(S) [737]	–	n.r.	25.8 [737]	–	n.r.	–
San Pedro Sula	(D) [737]	–	n.r.	151.0 [737]	–	n.r.	–
Santa Rose De Copen	(S) [737]	–	n.r.	12.4 [737]	–	n.r.	–
Siguatepeque	(S) [737]	–	n.r.	12.5 [737]	–	n.r.	–
Tegucigalpe	(D) [737]	–	n.r.	273.9 [737]	–	n.r.	–
Tela	(S) [737]	–	n.r.	19.1 [737]	–	n.r.	–
MARTINIQUE	–	–	64,154	302.0	21.2	40,816	13.5
Reporting city accounts for 63.2% of the total telephones.△							
Reporting city accounts for 58.0% of the total main telephones.△							
Reporting city accounts for 33.1% of the total population.△							
Port De France	(A)	2	40,571	100.0	40.6	23,659	23.7

COUNTRY & CITY *	TELEPHONE EXCHANGE GEO.[8] SCOPE	TELEPHONE EXCHANGE NBR.	TOTAL TELE-PHONES	POPULATION (000)	TOT. TELS. PER 100 POP.	TOTAL MAIN TELS.	TOT. MAIN TELS./ 100 POP.
World Zone 5 (Continued)							
MEXICO	–	–	**5,082,718**	**67,405.0**	**7.5**	**2,661,313**	**4.0**
Reporting cities account for 84.3% of the total telephones.△							
Reporting cities account for 85.8% of the total main telephones.△							
Reporting cities account for 45.4% of the total population.△							
Acapulco, Gro.	(D)	2	56,281	433.0	13.0	25,479	5.9
Agujita	(A)	1	342	11.9	2.9	326	2.7
Allende	(A)	1	1,467	18.0	8.2	1,270	7.1
Aquascalientes, Aqs.	(B)	1	36,055	278.0	13.0	17,580	6.3
Barroteran	(A)	1	512	16.6	3.1	394	2.4
C. Cienegas	(A)	1	437	13.6	3.2	390	2.9
Castanos	(B)	1	179	13.3	1.4	158	1.2
Cd. Juarez, Chih.	(D)	2	53,924	719.0	7.5	31,892	4.4
Cd. Obregon, Son.	(B)	1	28,705	201.0	14.3	15,077	7.5
Cd. Victoria, Tamps.	(B)	1	13,184	146.0	9.0	7,944	5.4
Celaya, Gto.	(B)	1	20,734	105.0	19.8	11,417	10.9
Chihuahua, Chih.	(D)	2	64,846	520.0	12.5	34,151	6.6
Coatzacoalcos, Ver.	(B)	1	14,741	126.0	11.7	6,902	5.5
Colima, Col.	(B)	1	13,643	108.0	12.6	6,965	6.5
Cordoba, Ver.	(D)	2	14,180	146.0	9.7	7,972	5.5
Cuautitlan, Mex.	(D)	4	36,711	80.0	45.9	18,880	23.6
Cuautla, Mor.	(B)	1	11,822	140.0	8.4	7,312	5.2
Cuernavaca, Mor.	(D)	3	55,271	257.0	21.5	31,071	12.1
Culiacan, Sin.	(D)	2	41,929	650.0	6.5	19,353	3.0
Durango, Dug.	(B)	1	35,642	256.0	13.9	17,180	6.7
Frontera	(B)	1	3,792	50.6	7.5	3,100	6.1
Guadalajara, Jal.	(D)	13	302,994	2,084.0	14.5	173,734	8.3
Guaymas, Son.	(B)	1	13,893	133.0	10.5	7,632	5.7
Hermasillo, Son.	(D)	2	44,413	295.0	15.1	21,754	7.4
Iampico, Tamps.	(D)	3	49,710	276.0	18.0	26,367	9.6
Irapuato, Gto.	(B)	1	18,758	169.0	11.1	10,624	6.3
Jalapa, Ver.	(D)	3	35,377	249.0	14.2	17,581	7.1
La Paz, B.C.S.	(B)	1	18,197	80.0	22.8	8,558	10.7
Leon, Gto.	(D)	2	49,979	607.0	8.2	29,069	4.8
Los Mochis, Sin.	(B)	1	20,964	101.0	20.8	9,779	9.7
M. Muzquiz	(B)	1	1,535	27.9	5.5	1,310	4.7
Matamoros, Tamps.	(B)	1	26,608	188.0	14.2	13,064	7.0
Mazatlan, Sin.	(D)	2	30,090	210.0	14.3	12,854	6.1
Merida, Yuc.	(D)	3	53,676	313.0	17.2	32,135	10.3
Mexicali, B.C.N.	–	–	17,651	606.0	2.9	12,592	2.1
Mexico, D.F.[264]	(D)	63	2,058,737	13,521.0	15.2	1,088,590	8.1
Minatitlan, Ver.	–	–	10,665	116.0	9.2	5,166	4.5
Monclova	(A)	1	9,727	152.8	6.4	7,333	4.8
Monterrey, N.L.	(D)	11	275,802	1,572.0	17.5	155,617	9.9
Morelia, Mich.	(D)	2	30,972	251.0	12.3	15,408	6.1
Morelos	(B)	1	468	6.3	7.4	422	6.7
N. Laredo	(D)	2	29,239	–	–	15,225	–
Nava	(A)	1	348	11.1	3.1	303	2.7
Navojoa, Son.	–	–	11,173	89.0	12.6	5,504	6.2
Nogales, Son.	–	–	10,546	69.0	15.3	5,738	8.3
Nueva Rosita	(B)	1	3,833	51.2	7.5	3,464	6.8
Nuevo Laredo, Tamps.	–	–	29,239	217.0	13.5	15,694	7.2
Oaxaca, Oax.	(D)	2	23,557	132.0	17.9	10,877	8.2
Orizaba, Ver.	(B)	1	20,400	122.0	16.7	11,407	9.4
Pachuca, Hgo.	(D)	2	18,190	110.0	16.5	9,066	8.2
Palau	(A)	1	306	16.9	1.8	178	1.1
Poza Rica, Ver.	(B)	1	17,592	217.0	8.1	7,962	3.7
Puebla, Pue.	(D)	6	114,423	695.0	16.5	59,185	8.5
Queretaro, Qro.	(B)	1	26,022	172.0	15.1	13,751	8.0
Reynosa, Tamps.	(B)	1	22,547	233.0	9.7	12,069	5.2

COUNTRY & CITY *	TELEPHONE EXCHANGE GEO.[8] SCOPE	TELEPHONE EXCHANGE NBR.	TOTAL TELE-PHONES	POPULATION (000)	TOT. TELS. PER 100 POP.	TOTAL MAIN TELS.	TOT. MAIN TELS./ 100 POP.
MEXICO (Continued)							
Sabinas	(A)	1	3,790	35.0	10.8	2,949	8.4
Saltillo, Coah.	(B)	1	36,074	279.0	12.9	17,064	6.1
San Buenaventura	(A)	1	1,005	23.1	4.4	915	4.0
San Luis Potosi, S.L.P.	(D)	2	46,961	359.0	13.1	24,258	6.8
Tepic, Nav.	(B)	1	15,760	139.0	11.3	7,967	5.7
Tijuana, B.C.N.	–	–	29,031	678.0	4.3	20,587	3.0
Toluca, Mex.	(D)	3	45,090	464.0	9.7	22,461	4.8
Torreon, Coah.	(D)	3	65,037	420.0	15.5	34,828	8.3
Tuxtla Gtz., Chis.	(B)	1	19,735	95.0	20.8	8,825	9.3
Uruapan, Mich.	(B)	1	15,486	120.0	12.9	7,754	6.5
Veracruz, Ver.	(D)	3	55,655	340.0	16.4	28,058	8.3
Villa Union	(B)	1	126	6.0	2.1	106	1.8
Villahermosa, Tab.	(B)	1	22,302	168.0	13.3	9,980	5.9
Zacatecas, Zac.	(B)	2	12,808	72.0	17.8	6,401	8.9
Zamora	(B)	1	10,661	–	–	6,327	–
Zaragoza	(B)	1	889	10.0	8.9	753	7.5
NETHERLANDS ANTILLES[553]	–	–	**n.r.**[553]	**246.0**[7]	–	**n.r.**	–
Reporting cities account for –% of the total telephones.△							
Reporting cities account for –% of the total main telephones.△							
Reporting cities account for –% of the total population.△							
Kralendijk	–	–	n.r.	n.a.	–	n.r.	–
Oranjestad (North)	–	–	n.r.	n.a.	–	n.r.	–
Oranjestad (South)	–	–	n.r.	n.a.	–	n.r.	–
Phillipsburg	–	–	n.r.	n.a.	–	n.r.	–
The Bottom	–	–	n.r.	n.a.	–	n.r.	–
Willemstad	–	–	n.r.	n.a.	–	n.r.	–
NICARAGUA[723]	–	–	**n.r.**[723]	**2,704.0**[738]	–	**n.r.**	–
Reporting cities account for –% of the total telephones.△							
Reporting cities account for –% of the total main telephones.△							
Reporting cities account for –% of the total population.△							
Bluefields	(A)[731]	–	n.r.[681]	n.r.	–	n.r.	–
Boaco	(A)[731]	–	n.r.[681]	n.r.	–	n.r.	–
Chinandega	(A)[731]	–	n.r.[681]	n.r.	–	n.r.	–
Esteli	(A)[731]	–	n.r.[681]	n.r.	–	n.r.	–
Granada	(A)[731]	–	n.r.[681]	n.r.	–	n.r.	–
Jinotega	(A)[731]	–	n.r.[681]	n.r.	–	n.r.	–
Jinotepa	(A)[731]	–	n.r.[681]	n.r.	–	n.r.	–
Juigalpa	(A)[731]	–	n.r.[681]	n.r.	–	n.r.	–
Leon	(A)[731]	–	n.r.[681]	n.r.	–	n.r.	–
Managua	(A)[731]	–	n.r.[681]	n.r.	–	n.r.	–
Masaya	(A)[731]	–	n.r.[681]	n.r.	–	n.r.	–
Matagalpa	(A)[731]	–	n.r.[681]	n.r.	–	n.r.	–
Ocotal	(A)[731]	–	n.r.[681]	n.r.	–	n.r.	–
Rivas	(A)[731]	–	n.r.[681]	n.r.	–	n.r.	–
San Carlos	(A)[731]	–	n.r.[681]	n.r.	–	n.r.	–
Somoto	(A)[731]	–	n.r.[681]	n.r.	–	n.r.	–
PANAMA	–	–	**191,913**	**1,939.0**	**9.9**	**145,194**	**7.5**
Reporting cities account for 87.1% of the total telephones.△							
Reporting cities account for 85.5% of the total main telephones.△							
Reporting cities account for 45.2% of the total population.△							
Aguadulce	(A)	–	1,317	11.0	12.0	1,014	9.2
Chitre	(A)	–	2,358	16.9	14.0	1,575	9.3
Chorrera	(A)	–	1,762	51.2	3.4	1,618	3.2
Colon	(A)	–	13,228	77.6	17.1	11,150	14.4
David	(A)	–	6,999	52.9	13.2	4,732	9.0
Panama	(A)	–	139,621	634.0	22.0	102,584	16.2
Penonome	(A)	–	594	9.2	6.5	372	4.0
Santiago	(A)	–	1,347	22.7	5.9	1,149	5.1

Table 14: (continued)
Total and Main Telephones in the World's Principal Cities
Reported data as of January 1, 1981

COUNTRY & CITY *	TELEPHONE EXCHANGE GEO. SCOPE	TELEPHONE EXCHANGE NBR.	TOTAL TELE-PHONES	POPULA-TION (000)	TOT. TELS. PER 100 POP.	TOTAL MAIN TELS.	TOT. MAIN TELS./ 100 POP.
World Zone 5 (Continued)							
PARAGUAY	–	–	**58,713**	**3,218.0**	**1.8**	**49,678**	**1.5**
Reporting cities account for 92.0% of the total telephones.△							
Reporting cities account for 90.1% of the total main telephones.△							
Reporting cities account for 29.9% of the total population.△							
Asuncion	(A)	8	45,818	645.7 [750]	7.1	37,669	5.8
Caaguzu	(A)	1	231	21.7 [750]	1.1	200	0.9
Ciud Presidente Stroessner	(A)	1	1,701	90.0 [750]	1.9	1,473	1.6
Concepcion	(A)	1	545	23.4 [750]	2.3	472	2.0
Coronel Oviedo	(A)	1	686	16.6 [750]	4.1	594	3.6
Encarnacion	(A)	1	1,286	27.9 [750]	4.6	1,114	4.0
Hernandarias	(A)	1	362	5.0 [750]	7.2	314	6.3
Luque	(A)	1	657	17.3 [750]	3.8	569	3.3
Pedro Juan Caballero	(A)	1	921	45.0 [750]	2.1	798	1.8
Pilar	(A)	1	461	24.8 [750]	1.9	399	1.6
San Lorenzo	(A)	1	676	23.9 [750]	2.8	585	2.5
Villarrica	(A)	1	684	19.7 [750]	3.5	592	3.0
PERU	–	–	**487,123**	**17,221.0**	**2.8**	**292,011**	**1.7**
Reporting cities account for 165.5% of the total telephones.△							
Reporting cities account for 175.2% of the total main telephones.△							
Reporting cities account for 25.2% of the total population.△							
Arequipa	(A)	2	16,795	304.7 [750]	5.5	11,444	3.8
Callao [774]	(A)	4	38,371	n.a.	–	36,511	–
Chiclayo	–	–	10,834	189.7 [750]	5.7	7,526	4.0
Chimbote	–	–	4,018	159.0 [750]	2.5	3,266	2.1
Chorrillos [774]	(A)	1	12,262	n.a.	–	9,681	–
Chosina [774]	(A)	1	1,597	n.a.	–	954	–
Cuzco	–	–	8,187	120.9 [750]	6.8	3,506	2.9
Districts [774]	–	–	–	–	–	–	–
Huacho	–	–	1,573	22.8 [751]	6.9	1,247	5.5
Huancayo	–	–	4,009	115.7 [750]	3.5	3,681	3.2
Huanuco	–	–	1,178	24.6 [751]	4.8	863	3.5
Ica	–	–	2,873	49.1	5.9	1,825	3.7
Iquitos	–	–	3,800	111.3 [750]	3.4	3,155	2.8
Lima [583]	(A)	27	359,869	2,862.2 [750]	12.6	242,872	8.5
Lima [774]	(A)	6	127,021	n.a.	–	48,212	–
Lince [774]	(A)	2	16,602	n.a.	–	18,339	–
Magdalena [774]	(A)	2	33,463	n.a.	–	19,580	–
Mirafiores [774]	(A)	3	47,961	n.a.	–	28,881	–
Monterrico [774]	(A)	2	31,501	n.a.	–	18,590	–
Piura [774]	(A)	1	8,973	126.7 [750]	7.1	6,887	5.4
Rimac [774]	(A)	1	18,328	n.a.	–	9,697	–
San Isidro [774]	(A)	3	42,497	n.a.	–	24,642	–
Tarma	–	–	857	15.5 [751]	5.5	836	5.4
Trujillo	(A)	1	12,916	241.9 [750]	5.3	9,488	3.9
SURINAME [765]	–	–	n.r. [765]	**350.0**	–	n.r.	–
Reporting cities account for –% of the total telephones.△							
Reporting cities account for –% of the total main telephones.△							
Reporting cities account for –% of the total population.△							
Albina	–	–	n.r. [779]	n.r.	–	n.r.	–
Brokopondo	–	–	n.r. [779]	n.r.	–	n.r.	–
Coronie	–	–	n.r. [779]	n.r.	–	n.r.	–
Districts	–	–	n.r. [779]	n.r.	–	n.r.	–
Groningen	–	–	n.r. [779]	n.r.	–	n.r.	–
Groot Henar	–	–	n.r. [779]	n.r.	–	n.r.	–

COUNTRY & CITY *	TELEPHONE EXCHANGE GEO. SCOPE	TELEPHONE EXCHANGE NBR.	TOTAL TELE-PHONES	POPULA-TION (000)	TOT. TELS. PER 100 POP.	TOTAL MAIN TELS.	TOT. MAIN TELS./ 100 POP.
SURINAME (Continued)							
La Vigilantia	–	–	n.r. [779]	n.r.	–	n.r.	–
Lelydorp	–	–	n.r. [779]	n.r.	–	n.r.	–
Mobile Exchange	–	–	n.r. [779]	n.r.	–	n.r.	–
Moengo	–	–	n.r. [779]	n.r.	–	n.r.	–
New Amsterdam	–	–	n.r. [779]	n.r.	–	n.r.	–
New Nickerie	–	–	n.r. [779]	n.r.	–	n.r.	–
Paramaribo City	–	–	n.r. [779]	n.r.	–	n.r.	–
Paramaribo New-West	–	–	n.r. [779]	n.r.	–	n.r.	–
Paramaribo North	–	–	n.r. [779]	n.r.	–	n.r.	–
Paramaribo South	–	–	n.r. [779]	n.r.	–	n.r.	–
Paramaribo West	–	–	n.r. [779]	n.r.	–	n.r.	–
Uitkijk	–	–	n.r. [779]	n.r.	–	n.r.	–
Wageningen	–	–	n.r. [779]	n.r.	–	n.r.	–
Zandiry	–	–	n.r. [779]	n.r.	–	n.r.	–
URUGUAY	–	–	**287,140**	**2,899.0**	**9.9**	**220,182**	**7.6**
Reporting cities account for 75.1% of the total telephones.△							
Reporting cities account for 85.8% of the total main telephones.△							
Reporting cities account for 56.2% of the total population.△							
Las Piedras	(B)	1	1,500	44.0	3.4	1,425	3.2
Maldonado	(B)	1	4,000	22.2	18.0	3,892	17.5
Melo	(B)	1	1,400	36.3	3.9	1,331	3.7
Mercedes	(B)	1	2,200	34.7	6.3	2,045	5.9
Minas	(B)	1	2,100	35.4	5.9	1,908	5.4
Montevideo	(D)	20	186,200	1,286.3	14.5	162,227	12.6
Paysandu	(B)	1	3,700	62.4	5.9	3,346	5.4
Punta Del Este	(C)	2	8,800	6.9	127.5	7,401	107.3
Salto	(B)	1	4,000	71.9	5.6	3,661	5.1
San Jose	(B)	1	1,600	28.4	5.6	1,569	5.5
VENEZUELA [783]	–	–	n.r. [783]	**13,616.2** [750]	–	**n.a.**	–
Reporting cities account for –% of the total telephones.△							
Reporting cities account for –% of the total main telephones.△							
Reporting cities account for 49.2% of the total population.△							
Barquisimeto	–	–	n.r. [783]	550.0 [750]	–	n.r.	–
C. Guayana	–	–	n.r. [783]	335.0 [750]	–	n.r.	–
Caracas	–	–	n.r. [783]	3,415.0 [750]	–	n.r.	–
Maracaibo	–	–	n.r. [783]	1,040.0 [750]	–	n.r.	–
Maracay	–	–	n.r. [783]	350.0 [750]	–	n.r.	–
Pto. La Cruz	–	–	n.r. [783]	270.0 [750]	–	n.r.	–
San Cristobal	–	–	n.r. [783]	225.0 [750]	–	n.r.	–
Valencia	–	–	n.r. [783]	515.0 [750]	–	n.r.	–

Summary

Data for reporting cities in World Zone 5 account for 73.9% of the total telephones; 87.3% of the total main telephones and 39.9% of the total population for the Zone.

COUNTRY & CITY *	TELEPHONE EXCHANGE GEO. SCOPE	TELEPHONE EXCHANGE NBR.	TOTAL TELE-PHONES	POPULA-TION (000)	TOT. TELS. PER 100 POP.	TOTAL MAIN TELS.	TOT. MAIN TELS./ 100 POP.
World Zone 6							
AMERICAN SAMOA	–	–	**5,210**	**34.1**	**15.3**	**3,530**	**10.4**
Reporting cities account for 100% of the total telephones.△							
Reporting cities account for 100% of the total main telephones.△							
Reporting cities account for 100% of the total population.△							
Fagaitua	(A)	1	290	3.3	8.8	230	7.0
Fagatogo	(A)	1	3,160	19.2	16.5	1,860	9.7
Leone	(A)	1	640	5.0	12.8	530	10.6

COUNTRY & CITY *	TELEPHONE EXCHANGE GEO. SCOPE	TELEPHONE EXCHANGE NBR.	TOTAL TELE-PHONES	POPULA-TION (000)	TOT. TELS. PER 100 POP.	TOTAL MAIN TELS.	TOT. MAIN TELS./ 100 POP.
World Zone 6 (Continued)							
AMERICAN SOMOA (Continued)							
Luma	(A)	1	150	1.8	8.3	130	7.2
Tufuna	(A)	1	970	4.8	20.2	780	16.3
AUSTRALIA [817]	–	–	**7,684,336**	**14,615.9**	**52.6**	**5,069,342**	**34.7**
Reporting cities account for 76.4% of the total telephones.Δ							
Reporting cities account for 72.4% of the total main telephones.Δ							
Reporting cities account for 68.6% of the total population.Δ							
Adelaide	(A)	70	522,024	934.2	55.9	357,930	38.3
Brisbane	(A)	79	520,854	1,028.9	50.6	361,894	35.2
Canberra	(A)	37	166,522	245.5	67.8	92,545	37.7
Geelong	(A)	65	83,579	142.3	58.7	65,660	46.1
Hobart	(A)	37	88,210	170.2	51.8	60,260	35.4
Melbourne	(A)	157	1,675,246	2,759.7	60.7	1,033,104	37.4
Newcastle	(A)	33	133,949	385.0	34.8	102,462	26.6
Perth	(A)	59	486,761	902.0	54.0	332,569	36.9
Sydney	(A)	127	2,032,609	3,231.7	62.9	1,140,773	35.3
Wollongong	(A)	102	158,343	226.3	70.0	125,019	55.2
‡BANABA (OCEAN) ISLAND [342]	–	–	–	**2.0**	–	–	–
Reporting area accounts for –% of the total telephones.Δ							
Reporting area accounts for –% of the total main telephones.Δ							
Reporting area accounts for 100.0% of the total population.Δ							
Banaba Island	–	–	–	2.0	–	–	–
BRUNEI	–	–	**17,930**	**225.0**	**8.0**	**11,107**	**4.9**
Reporting cities account for 86.3% of the total telephones.Δ							
Reporting cities account for 84.1% of the total main telephones.Δ							
Reporting cities account for 84.4% of the total population.Δ							
Bandar Seri Begawan	(A)	6	9,661	110.0	8.8	5,698	5.2
Kuala Belait	(A)	1	3,714	44.0	8.4	2,165	4.9
Seria	(B)	1	1,627	22.0	7.4	1,197	5.4
Tutong	(B)	1	477	14.0	3.4	282	2.0
‡COCOS (KEELING) ISLAND	–	–	**142**	**0.6**	**23.7**	–	–
Reporting area accounts for 100.0% of the total telephones.Δ							
Reporting area accounts for –% of the total main telephones.Δ							
Reporting area accounts for 100.0% of the total population.Δ							
Cocos (Keeling) Islands	(B)	1	142 [307]	0.6	23.7	–	–
COOK ISLANDS [526]	–	–	n.r. [526]	**26.0**	–	n.r.	–
Reporting cities account for – % of the total telephones.Δ							
Reporting cities account for – % of the total main telephones.Δ							
Reporting cities account for 48.5% of the total population.Δ							
Aitutaki	–	–	n.r. [526]	3.0 [570]	–	n.r.	–
Rarotonga	–	–	n.r. [526]	9.6 [570]	–	n.r.	–
FIJI	–	–	**45,323**	**624.0**	**7.3**	**23,381**	**3.8**
Reporting cities account for 44.3% of the total telephones.Δ							
Reporting cities account for 42.3% of the total main telephones.Δ							
Reporting cities account for 14.4% of the total population.Δ							
Lautoka	–	–	5,769	25.0	23.1	3,345	13.4
Suva	–	–	14,316	65.0	22.0	6,538	10.1
FRENCH POLYNESIA	–	–	**22,523**	**135.0**	**16.7**	**11,407**	**8.5**
Reporting cities account for 98.1% of the total telephones.Δ							
Reporting cities account for 105.7% of the total main telephones.Δ							
Reporting cities account for 85.7% of the total population.Δ							
Atuona (Hiva-Oa)	–	–	55	1.4	3.9	2	0.1
Fare (Huahine)	–	–	54	3.0	1.8	52	1.7
Moorea	–	–	428	5.8	7.4	359	6.2
Papeete [315]	(A)	–	20,495	97.0 *	21.1	10,697	11.0
Tahiti [316]	–	–	572	–	–	493	–
Taiohae (Nuku-Hiva)	–	–	84	1.5	5.6	81	5.4
Tubuai (Mataura)	–	–	42	1.5	2.8	42	2.8
Uturoa (Raiatea)	–	–	324	3.0	10.8	275	9.2
Vaitape (Bora-Bora)	–	–	51	2.5	2.0	50	2.0

COUNTRY & CITY *	TELEPHONE EXCHANGE GEO. SCOPE	TELEPHONE EXCHANGE NBR.	TOTAL TELE-PHONES	POPULA-TION (000)	TOT. TELS. PER 100 POP.	TOTAL MAIN TELS.	TOT. MAIN TELS./ 100 POP.
GUAM, MARIANA ISLANDS [538]	–	–	**27,982**	**106.0**	**26.4**	**19,415**	**18.3**
Reporting cities account for 100.0% of the total telephones.Δ							
Reporting cities account for 100.3% of the total main telephones.Δ							
Reporting cities account for 100.0% of the total population.Δ							
Agana	(A)	1	6,800	19.9	34.2	6,689	33.6
Agat	(A)	1	1,578	13.2	12.0	1,390	10.5
Dededo	(A)	1	4,578	23.6	19.4	3,928	16.6
Mangilao	(A)	1	2,764	10.7	25.8	1,870	17.5
Merizo	(A)	1	639	4.5	14.2	599	13.3
Talofofo	(A)	1	1,271	6.2	20.5	1,051	17.0
Tumon	(A)	1	8,347	15.6	53.5	4,337	27.8
Yigo	(A)	1	2,005	12.3	16.3	1,551	12.6
INDONESIA [536]	–	–	n.r. [536]	**141,579.0**	–	n.r. [536]	–
Reporting cities account for – % of the total telephones.Δ							
Reporting cities account for – % of the total main telephones.Δ							
Reporting cities account for 11.0% of the total population.Δ							
Amboina	–	–	n.r. [539]	95.3	–	n.r. [539]	–
Bandaaceh	–	–	n.r. [539]	65.9	–	n.r. [539]	–
Bandung	–	–	n.r. [539]	1,378.4	–	n.r. [539]	–
Banjarmasin	–	–	n.r. [539]	341.0	–	n.r. [539]	–
Biak	–	–	n.r. [539]	70.7	–	n.r. [539]	–
Bukittinggi	–	–	n.r. [539]	77.3	–	n.r. [539]	–
Cirebon	–	–	n.r. [539]	204.6	–	n.r. [539]	–
Denpasar	–	–	n.r. [539]	480.7	–	n.r. [539]	–
Jakarta	–	–	n.r. [539]	6,043.5	–	n.r. [539]	–
Jambi	–	–	n.r. [539]	195.7	–	n.r. [539]	–
Jayapura	–	–	n.r. [539]	121.0	–	n.r. [539]	–
Madiun	–	–	n.r. [539]	155.8	–	n.r. [539]	–
Magelang	–	–	n.r. [539]	126.2	–	n.r. [539]	–
Melang	–	–	n.r. [539]	484.6	–	n.r. [539]	–
Medan	–	–	n.r. [539]	785.9	–	n.r. [539]	–
Menado	–	–	n.r. [539]	205.4	–	n.r. [539]	–
Padang	–	–	n.r. [539]	242.1	–	n.r. [539]	–
Palembang	–	–	n.r. [539]	720.0	–	n.r. [539]	–
Semarang	–	–	n.r. [539]	741.1	–	n.r. [539]	–
Solo	–	–	n.r. [539]	474.4	–	n.r. [539]	–
Surabaya	–	–	n.r. [539]	1,785.6	–	n.r. [539]	–
Tanjungkarang	–	–	n.r. [539]	245.1	–	n.r. [539]	–
Ujungpandang	–	–	n.r. [539]	525.8	–	n.r. [539]	–
KIRIBATI (GILBERT ISLANDS) [351]	–	–	**724**	**60.0**	**1.2**	**571**	**1.0**
Reporting cities account for 100.8% of the total telephones.Δ							
Reporting cities account for 100.0% of the total main telephones.Δ							
Reporting cities account for 23.3% of the total population.Δ							
Bairiki	(A)	1	326	2.0	16.4	251	12.6
Betio	(A)	1	223	8.0	2.8	188	2.4
Bikenibeu	(A)	1	179	4.0	4.5	132	3.3
‡KIRITIMATI (CHRISTMAS ISLAND) [399]	–	–	**461**	**3.2**	**14.4**	**382**	**11.9**
Reporting cities account for 100.0% of the total telephones.Δ							
Reporting cities account for 100.0% of the total main telephones.Δ							
Reporting cities account for – % of the total population.Δ							
Drumsite	–	–	144	n.a.	–	128	–
Settlement	–	–	317	n.a.	–	254	–
‡KWAJALEIN	–	–	**5,790**	**3.0**	**193.0**	**3,860**	**128.7**
Reporting cities account for 100.0% of the total telephones.Δ							
Reporting cities account for 100.0% of the total main telephones.Δ							
Reporting cities account for 100.0% of the total population.Δ							
Kwajalein	(A)	1	5,790	3.0	193.0	3,860	128.7
MALAYSIA	–	–	**596,972**	**13,436.0**	**4.4**	**394,423**	**2.9**
Reporting cities account for 59.4% of the total telephones.Δ							
Reporting cities account for 56.4% of the total main telephones.Δ							

Table 14: (continued)
Total and Main Telephones in the World's Principal Cities
Reported data as of January 1, 1981

COUNTRY & CITY •	TELEPHONE EXCHANGE GEO.[6] SCOPE	TELEPHONE EXCHANGE NBR.	TOTAL TELE-PHONES	POPULA-TION (000)	TOT. TELS. PER 100 POP.	TOTAL MAIN TELS.	TOT. MAIN TELS./ 100 POP.
World Zone 6 (Continued)							
MALAYSIA (Continued)							
Reporting cities account for 18.2% of the total population.△							
Ipoh	(A)	–	31,267	284.0	11.0	22,100	7.8
Kota Kinabalu	(A)	–	18,697	113.0	16.6	8,685	7.7
Kuala Lumpur	(A)	–	151,331	938.0	16.1	85,496	9.1
Kuching	(A)	–	27,239	185.0	14.7	18,485	10.0
Miri	(A)	–	6,216	43.0	14.5	4,090	9.5
Penang	(A)	–	31,972	195.0	16.4	20,112	10.3
Petaling Jaya	(A)	–	65,006	372.0	17.5	47,898	12.9
Sandakan	(A)	–	5,970	118.0	5.1	3,752	3.2
Sibu	(A)	–	10,541	78.0	13.5	7,311	9.4
Tawau	(A)	–	6,575	122.0	5.4	4,661	3.8
‡MIDWAY ISLANDS[540]	–	–	n.r.[540]	**2.0**	–	**n.r.**	–
Reporting area accounts for –% of the total telephones.△							
Reporting area accounts for –% of the total main telephones.△							
Reporting area accounts for 100.0% of the total population.△							
Midway Island	(B)	1	n.r.	2.0	–	n.r.	–
NAURU[543]	–	–	n.a.[543]	**7.3**	–	**n.a.**	–
Reporting area accounts for –% of the total telephones.△							
Reporting area accounts for –% of the total main telephones.△							
Reporting area accounts for –% of the total population.△							
Yaren District	–	–	n.a.	n.a.	–	n.a.	–
NEW CALEDONIA[318]	–	–	**27,963**	**136.0**	**20.6**	**14,807**	**10.9**
Reporting cities account for 87.9% of the total telephones.△							
Reporting cities account for 84.5% of the total main telephones.△							
Reporting cities account for – % of the total population.△							
Bourail	–	–	334	n.a.	–	231	–
Koumac	–	–	203	n.a.	–	125	–
La Foa	–	–	229	n.a.	–	178	–
Mont Dore	–	–	1,029	n.a.	–	927	–
Noumea	–	–	22,578	n.a.	–	10,930	–
Poindimie	–	–	190	n.a.	–	120	–
NEW ZEALAND	–	–	**1,798,802**	**3,167.4**	**56.8**	**1,136,522**	**35.9**
Reporting cities account for 70.9% of the total telephones.△							
Reporting cities account for 66.4% of the total main telephones.△							
Reporting cities account for 70.0% of the total population.△							
Auckland	(C)	52	453,329	750.0	60.4	266,864	35.6
Christchurch	(C)	20	175,858	304.0	57.9	103,542	34.1
Dunedin	(C)	9	58,743	117.0	50.2	35,919	30.7
Hamilton	(C)	7	54,677	111.0	49.3	34,911	31.5
Invercargill	(C)	4	30,823	63.0	48.9	19,704	31.3
Napier/Hastings	(C)	6	53,104	112.0	47.4	33,158	29.6
Nelson	(C)	4	21,158	45.0	47.0	13,002	28.9
New Plymouth	(C)	3	24,982	58.0	43.1	15,974	27.5
Palmerston North	(A)	2	42,879	89.0	48.2	24,264	27.3
Rotorua	(D)	2	24,307	52.0	46.7	14,847	28.6
Tauranga	(C)	4	29,060	54.0	53.8	19,591	36.3
Timaru	(C)	3	18,985	42.0	45.2	12,128	28.9
Wanganui	(C)	3	22,865	43.0	53.2	14,504	33.7
Wellington	(D)	27	241,260	329.0	73.3	131,384	39.9
Whangarei	(C)	5	22,650	47.0	48.2	14,811	31.5

COUNTRY & CITY •	TELEPHONE EXCHANGE GEO.[6] SCOPE	TELEPHONE EXCHANGE NBR.	TOTAL TELE-PHONES	POPULA-TION (000)	TOT. TELS. PER 100 POP.	TOTAL MAIN TELS.	TOT. MAIN TELS./ 100 POP.
NIUE[559]	–	–	n.a.[559]	6.0[2]	–	n.a.	–
Reporting city accounts for –% of the total telephones.△							
Reporitng city accounts for –% of the total main telephones.△							
Reporting city accounts for –% of the total population.△							
Alofi	–	–	n.a.[559]	n.a.	–	n.a.	–
‡NORFOLK ISLAND	–	–	**826**	**1.8**	**45.9**	**554**	**30.8**
Reporting area accounts for 100.0% of the total telephones.△							
Reporting area accounts for –% of the total main telephones.△							
Reporting area accounts for 100.0% of the total population.△							
Norfolk Island	(A)	–	826	1.8	45.9	–	–
‡NORTHERN MARIANAS[188]	–	–	**2,258**	**16.8**	**13.4**	**1,606**	**9.6**
Reporting cities account for 100.0% of the total telephones.△							
Reporting cities account for 100.0% of the total main telephones.△							
Reporting cities account for 100.0% of the total population.△							
Capital Hill	(A)	1	677	2.8	24.2	522	18.6
Rota	(B)	1	114	1.3	8.8	90	6.9
Susupe	(A)	1	1,397	11.8	11.8	940	8.0
Tinian	(B)	1	70	0.9	7.8	54	6.0
PALAU (MICRONESIA)[493]	–	–	**1,048**	**12.2**	**8.6**	**830**	**6.8**
Reporting cities account for 100.0% of the total telephones.△							
Reporting cities account for 57.7% of the total main telephones.△							
Reporting cities account for 49.2% of the total population.△							
Babelthuap	–	–	–	–	–	–	–
Koror[326]	(B)	1	1,048	6.0	17.5	479	8.0
PAPUA NEW GUINEA	–	–	**49,330**	**3,006.8**	**1.6**	**25,422**	**0.9**
Reporting cities account for 84.8% of the total telephones.△							
Reporting cities account for 81.2% of the total main telephones.△							
Reporting cities account for 9.5% of the total population.△							
Arawa	(B)	–	2,092	12.5[332]	16.7	1,600	12.8
Goroka	(B)	–	2,117	19.0[331]	11.1	1,028	5.4
Lae	(B)	–	7,162	62.0[331]	11.6	3,325	5.4
Madang	(B)	–	2,186	21.5[331]	10.2	1,088	5.1
Mt. Hagen	(B)	–	1,487	14.0[331]	10.6	769	5.5
Port Moresby	(B)	2	21,886	123.0[331]	17.8	10,405	8.5
Rabaul	(B)	–	3,636	15.0[331]	24.2	1,773	11.8
Wewak	(B)	–	1,271	19.5[331]	6.5	652	3.3
PHILIPPINES[502]	–	–	**537,795**	**47,914.0**	**1.1**	**314,524**	**0.7**
Reporting cities account for 100.0% of the total telephones.△							
Reporting cities account for 100.0% of the total main telephones.△							
Reporting cities account for 36.3% of the total population.△							
Bacolod, Negros Occidental	(A)	4	14,860	1,936.8[341]	0.8	10,707	0.6
Cavite	(A)	5	2,464	771.8[341]	0.3	2,392	0.3
Cebu	(A)	3	29,978	2,784.7[341]	1.1	20,278	0.7
Dagupan, Pangasinan	(A)	1	3,446	98.4[341]	3.5	2,366	2.4
Davao	(A)	2	12,246	523.1[341]	2.3	8,257	1.6
Iloilo	(A)	2	10,812	1,924.8[341]	0.6	7,937	0.4
Lucena, Quezon	(B)	1	2,604	107.9[341]	2.4	1,976	1.8
Metro, Manilla	(A)	12	445,626	5,924.6[341]	7.5	249,963	4.2
San Fernando, La Union	(B)	1	1,913	68.4[341]	2.8	1,129	1.7
San Fernando, Pampanga	(A)	3	2,791	1,024.2[341]	0.3	2,015	0.2
San Pablo, Laguna	(B)	1	2,998	131.7[341]	2.3	2,370	1.8
Tarlac	(A)	6	3,265	1,757.4[341]	0.2	2,417	0.1
Zamboanga	(B)	1	4,792	344.13[341]	1.4	2,717	0.8

COUNTRY & CITY *	TELEPHONE EXCHANGE GEO.[δ] SCOPE	NBR.	TOTAL TELE-PHONES	POPULA-TION (000)	TOT. TELS. PER 100 POP.	TOTAL MAIN TELS.	TOT. MAIN TELS/ 100 POP.
World Zone 6 (Continued)							
‡ PITCAIRN ISLAND	–	–	**25**	**0.1**	**25.0**	**25**	**25.0**
Reporting city accounts for 100.0% of the total telephones. Δ							
Reporting city accounts for 100.0% of the total main telephones. Δ							
Reporting city accounts for 100.0% of the total population. Δ							
Adamstown	(B)	1[345]	25	0.1[346]	25.0	25	25.0
SINGAPORE	–	–	**702,219**	**2,413.9**	**29.1**	**499,205**	**20.7**
Reporting city accounts for 100.0% of the total telephones. Δ							
Reporting city accounts for 104.9% of the total main telephones. Δ							
Reporting city accounts for 100.0% of the total population. Δ							
Singapore	(A)	–	702,219	2,413.9	29.1	523,446	21.7
SOLOMON ISLANDS	–	–	**2,474**	**235.0**	**1.1**	**1,183**	**0.5**
Reporting cities account for 100.0% of the total telephones. Δ							
Reporting cities account for 116.4% of the total main telephones. Δ							
Reporting cities account for 8.6% of the total population. Δ							
Auki[350]	(B)	1	120	n.a.	–	82	–
Gizo[350]	(B)	1	122	n.a.	–	98	–
Honiara[350]	(A)	1	2,232	20.3*	11.0	1,197	5.9
THAILAND	–	–	**496,558**	**46,961.0**	**1.1**	**349,325**	**0.7**
Reporting cities account for 81.9% of the total telephones. Δ							
Reporting cities account for 79.9% of the total main telephones. Δ							
Reporting cities account for 15.3% of the total population. Δ							
Bangkok Metropolis	(A)	–	368,128	6,401.0	5.8	253,966	4.0
Chiang Mai	(D)	–	8,503	176.0	4.8	3,822	2.2
Chon Buri	(D)	–	3,669	50.0	7.3	3,492	7.0
Hat Yai	(D)	–	6,262	98.0	6.4	2,812	2.9
Khon Kaen	(D)	–	2,740	94.0	2.9	1,666	1.8
Nakhon Pathom	(D)	–	2,710	45.0	6.0	2,365	5.3
Nakhon Ratchasima	(D)	–	4,502	89.0	5.1	3,500	3.9
Nakhon Sawan	(D)	–	3,411	89.0	3.8	2,788	3.1
Ubon Ratchathani	(D)	–	3,051	49.0	6.2	1,934	4.0
Udon Thani	(D)	–	3,679	81.0	4.5	2,869	3.5
TOKELAU ISLANDS[425]	–	–	–	**1.6**	–	–	–
‡ Reporting area accounts for –% of the total telephones. Δ							
Reporting area accounts for –% of the total main telephones Δ							
Reporting area accounts for 100.0% of the total population. Δ							
Tokelau Islands	–	–	–	1.6[562]	–	–	–
TONGA	–	–	**2,196**	**97.8**	**2.3**	**1,176**	**1.2**
Reporting cities account for 103.1% of the total telephones. Δ							
Reporting cities account for 105.5% of the total main telephones. Δ							
Reporting cities account for 100.0% of the total population. Δ							
Eastern District	(C)	1	33	–[321]	–	30	–
Western District	(C)	1	35	–[321]	–	35	–
Nuku'Alofa	(A)	1	2,196	97.8	2.3	1,176	1.2
TUVALU[401]	–	–	–	**6.0**	–	–	–
Reporting cities account for – % of the total telephones. Δ							
Reporting cities account for – % of the total main telephones. Δ							
Reporting cities account for – % of the total population. Δ							
Funafuti	–	–	–	–	–	–	–
Nukufetau	–	–	–	–	–	–	–
Nukulaila	–	–	–	–	–	–	–
Nurakita	–	–	–	–	–	–	–
VANUATU (NEW HEBRIDES)	–	–	**3,000**	**120.0**	**2.5**	**1,700**	**1.4**
Reporting cities account for 100.0% of the total telephones. Δ							
Reporting cities account for 100.0% of the total main telephones. Δ							
Reporting cities account for 16.7% of the total population. Δ							
Port Vila	(A)	1*	2,600	15.0	17.3	1,400	9.3
Santo	(A)	1*	400	5.0	8.0	300	6.0
‡ WAKE ISLAND[406]	–	–	n.r.[406]	**2.0**	–	n.r.	–
Reporting area accounts for –% of the total telephones. Δ							
Reporting area accounts for –% of the total main teelphones. Δ							
Reporting area accounts for 100.0% of the total population. Δ							
Wake Island	(B)	1	n.r.	2.0[567]	–	n.r.	–

COUNTRY & CITY *	TELEPHONE EXCHANGE GEO.[δ] SCOPE	NBR.	TOTAL TELE-PHONES	POPULA-TION (000)	TOT. TELS. PER 100 POP.	TOTAL MAIN TELS.	TOT. MAIN TELS/ 100 POP.
WALLIS AND FUTUNA ISLANDS[562]	–	–	n.r.[562]	**9.0**	–	n.r.	–
Reporting cities account for – % of the total telephones. Δ							
Reporting cities account for – % of the total main telephones. Δ							
Reporting cities account for – % of the total population. Δ							
Futuna Island[576]	–	–	n.r.[576]	–	–	n.r.	–
Wallis Island[576]	–	–	n.r.[576]	–	–	n.r.	–
WESTERN SAMOA	–	–	**5,918**	**158.1**	**3.7**	**3,979**	**2.5**
Reporting city accounts for 97.9% of the total telephones.							
Reporting city accounts for 100.0% of the total main telephones. Δ							
Reporting city accounts for 20.9% of the total population.							
Apia	(A)	1	5,791	33.1	17.5	3,979	12.0

Summary

Data for reporting cities in World Zone 6 account for 77.5% of the total telephones; 74.4% of the total main telephones and 21.2% of the total population for the Zone.

World Zone 7

USSR (SOVIET UNION)	–	–	**23,707,000**	**266,599.0**	**8.9**	**20,148,000**	**7.6**
Reporting cities account for 32.8% of the total telephones. Δ							
Reporting cities account for – % of the total main telephones. Δ							
Reporting cities account for 10.3% of the total population. Δ							
Alma-Ata	(A)	–	175,000	979.0	17.9	–	–
Baku	(A)	–	155,000	1,652.0	9.4	–	–
Erevah	(A)	–	–	1,069.0	–	–	–
Kharkov	(A)	–	2,150,000	1,485.0	144.8	–	–
Kiev	(A)	–	450,000	2,300.0	19.6	–	–
Leningrad	(A)	–	900,500	4,676.0	19.3	–	–
Minsk	(A)	–	240,000	1,347.0	17.8	–	–
Moskva	(A)	–	2,780,000	8,203.0	33.9	–	–
Riza	(A)	–	250,000	860.0	29.1	–	–
Sverdlovsk	(A)	–	155,000	1,330.0	11.7	–	–
Tashkent	(A)	–	195,000	1,858.0	10.5	–	–
Tbilisi	(A)	–	200,000	1,195.0	16.7	–	–
Vilnius	(A)	–	122,000	503.0	24.3	–	–

Summary

Data for reporting cities in World Zone 7 account for 32.8% of the total telephones; – % of the total main telephones and 10.3% of the total population for the Zone.

World Zone 8

BANGLADESH[755]	–	–	n.r.[755]	**84,655.0**[J]	–	n.r.	–
Reporting cities account for – % of the total telephones. Δ							
Reporting cities account for – % of the total main telephones. Δ							
Reporting cities account for 4.2% of the total population. Δ							
Chittagong	–	–	n.r.	890.0[J]	–	n.r.	–
Dacca	–	–	n.r.	2,000.0[J]	–	n.r.	–
Khulna	–	–	n.r.	437.0[J]	–	n.r.	–
Narayanganj	–	–	n.r.	241.0[J]	–	n.r.	–
CHINA – MAINLAND[503]	–	–	n.r.	**1,000,000.0**[368]	–	n.r.	–
Reporting cities account for – % of the total telephones. Δ							
Reporting cities account for – % of the total main telephones. Δ							
Reporting cities account for 2.8% of the total population. Δ							
Canton	–	–	n.r.	2,500.0[370]	–	n.r.	–
Peking	–	–	n.r.	7,570.0[370]	–	n.r.	–
Shanghai	–	–	n.r.	10,820.0[370]	–	n.r.	–
Shenyang	–	–	n.r.	2,800.0[370]	–	n.r.	–
Tientsin	–	–	n.r.	4,280.0[370]	–	n.r.	–
CHINA-TAIWAN	–	–	**3,166,169**	**17,886.0**	**17.7**	**2,160,494**	**12.1**
Reporting cities account for 64.1% of the total telephones. Δ							
Reporting cities account for 62.1% of the total main telephones. Δ							
Reporting cities account for 41.9% of the total population. Δ							

Table 14: (continued)
Total and Main Telephones in the World's Principal Cities
Reported data as of January 1, 1981

COUNTRY & CITY *	TELEPHONE EXCHANGE GEO.† SCOPE	TELEPHONE EXCHANGE NBR.	TOTAL TELE-PHONES	POPULA-TION (000)	TOT. TELS. PER 100 POP.	TOTAL MAIN TELS.	TOT. MAIN TELS./ 100 POP.
World Zone 8 (Continued)							
CHINA-TAIWAN (Continued)							
Kaohsiung	(A)	–	358,061	1,571.0	22.8	245,318	15.6
Keelung	(A)	–	71,795	345.0	20.8	55,030	16.0
Taichung	(A)	–	217,836	837.0	26.0	138,748	16.6
Tainan	(A)	–	153,196	753.0	20.3	103,914	13.8
Taipei	(A)	–	1,229,978	3,972.0	31.0	798,169	20.1
HONG KONG	–	–	**1,676,298**	**5,120.0**	**32.7**	**1,278,866**	**25.0**
Reporting cities account for 100.0% of the total telephones.△							
Reporting cities account for 100.0% of the total main telephones.△							
Reporting cities account for 100.0% of the total population.△							
Hong Kong Island	(D)	18	580,268	1,236.0	47.0	374,822	30.3
Kowloon	(D)	16	775,369	2,547.0	30.4	621,462	24.4
New Territories	(D)	30	320,661	1,337.0	24.0	282,582	21.1
JAPAN[4,5]	–	–	**58,007,409**	**117,414.8**	**49.4**	**41,335,154**	**35.2**
Reporting cities account for 57.5% of the total telephones.△							
Reporting cities account for – % of the total main telephones.△							
Reporting cities account for 49.8% of the total population.△							
Ageo	(A)	–	71,136	166.4	42.8	–	–
Akashi	(B)	–	111,337	234.8	47.4	–	–
Akita	(B)	–	147,797	284.4	52.0	–	–
Amagasaki	(B)	–	247,955	514.0	48.2	–	–
Aomori	(A)	–	141,434	286.8	49.3	–	–
Asahikawa	(A)	–	181,052	352.7	51.3	–	–
Ashikaga	(B)	–	77,809	166.6	46.7	–	–
Atsugi	(A)	–	86,425	145.6	59.4	–	–
Beppu	(B)	–	84,753	133.7	63.4	–	–
Chiba	(A)	–	343,477	743.3	46.2	–	–
Chizasaki	(A)	–	76,866	172.9	44.5	–	–
Chofu	(B)	–	84,337	175.1	48.2	–	–
Fuchu	(B)	–	84,299	186.2	45.3	–	–
Fujisawa	(B)	–	145,565	303.3	48.0	–	–
Fukui	(A)	–	135,430	239.0	56.7	–	–
Fukuoka	(A)	–	692,377	1,049.4	66.0	–	–
Fukushima	(A)	–	131,274	261.1	50.3	–	–
Fukuyama	(B)	–	174,464	348.3	50.1	–	–
Funabashi	(B)	–	169,190	475.5	35.6	–	–
Gifu	(A)	–	236,316	407.1	58.1	–	–
Hachinohe	(A)	–	118,130	238.5	49.5	–	–
Hachioji	(B)	–	171,981	380.7	45.2	–	–
Hakodate	(A)	–	171,716	318.8	53.9	–	–
Hamamatsu	(A)	–	241,025	492.9	48.9	–	–
Higashiosaka	(B)	–	261,380	498.9	52.4	–	–
Himeji	(B)	–	234,194	444.3	52.7	–	–
Hirakata	(B)	–	143,789	355.6	40.4	–	–
Hiratsuka	(B)	–	101,601	214.6	47.3	–	–
Hirosaki	(A)	–	79,562	175.7	45.3	–	–
Hiroshima	(B)	–	515,520	881.1	58.5	–	–
Hitachi	(B)	–	90,704	204.9	44.3	–	–
Ibaraki	(B)	–	104,668	229.8	45.6	–	–
Ichihara	(B)	–	93,820	222.0	42.3	–	–
Ichikawa	(A)	–	183,497	360.8	50.9	–	–
Ichinomiya	(A)	–	106,481	251.8	42.3	–	–
Ishinomaki	(A)	–	74,289	121.2	61.3	–	–
Itami	(B)	–	77,963	174.3	44.7	–	–
Iwaki	(B)	–	143,285	347.2	41.3	–	–
Jujo	(B)	–	93,073	208.6	44.6	–	–
Kakogawa	(B)	–	90,488	212.8	42.5	–	–
Kamakura	(B)	–	90,703	174.9	51.9	–	–
Kanazawa	(A)	–	260,361	406.0	64.1	–	–
Kashiwa	(A)	–	113,811	239.6	47.5	–	–
Kasugai	(B)	–	99,331	241.2	41.2	–	–
Kawagoe	(A)	–	110,052	256.2	43.0	–	–
Kawaguchi	(B)	–	155,097	381.2	40.7	–	–
Kawasaki	(B)	–	510,497	1,020.5	50.0	–	–
Kishiwada	(B)	–	81,315	180.5	45.1	–	–
Kitakyushu	(B)	–	519,806	1,055.4	49.3	–	–
Kobe	(B)	–	764,086	1,351.8	56.5	–	–
Kochi	(A)	–	181,520	300.0	60.5	–	–
Kofu	(A)	–	128,502	199.3	64.5	–	–
Koganei	(B)	–	267,916	502.3	53.3	–	–
Koriyama	(B)	–	123,653	283.9	43.6	–	–
Koshigaya	(A)	–	93,669	223.7	41.9	–	–
Kumamoto	(A)	–	285,049	508.4	56.1	–	–
Kurashiki	(B)	–	194,075	407.6	47.6	–	–
Kure	(B)	–	114,749	233.8	49.1	–	–
Kurume	(B)	–	103,024	214.6	48.0	–	–
Kushiro	(A)	–	120,423	215.7	55.8	–	–
Kyoto	(B)	–	834,589	1,454.3	57.4	–	–
Machida	(B)	–	119,020	293.8	40.5	–	–
Maebashi	(A)	–	141,987	266.3	53.3	–	–
Matsudo	(B)	–	176,600	398.9	44.3	–	–
Matsue	(B)	–	68,720	133.0	51.7	–	–
Matsumoto	(A)	–	108,841	189.2	57.5	–	–
Matsuyama	(A)	–	232,673	404.0	57.6	–	–
Mishima	(A)	–	74,705	94.4	79.1	–	–
Mitaka	(B)	–	76,532	158.1	48.4	–	–
Mito	(A)	–	127,366	215.7	59.0	–	–
Miyazaki	(B)	–	142,549	260.1	54.8	–	–
Morioka	(A)	–	156,535	228.1	68.6	–	–
Moriguchi	(B)	–	83,411	162.1	51.5	–	–
Muroran	(B)	–	76,062	156.7	48.5	–	–
Musashino	(B)	–	77,034	131.6	58.5	–	–
Nagano	(B)	–	159,533	323.1	49.4	–	–
Nagaoka	(A)	–	88,112	177.9	49.5	–	–
Nagasaki	(A)	–	228,344	444.3	51.4	–	–
Nagoya	(A)	–	1,272,202	2,070.9	61.4	–	–
Naha	(A)	–	144,156	299.0	48.2	–	–
Nara	(B)	–	136,804	298.2	45.9	–	–
Narashino	(A)	–	72,138	125.0	57.7	–	–
Neyagawa	(B)	–	109,782	251.1	43.7	–	–
Niigata	(A)	–	253,013	449.4	56.3	–	–
Nishinomiya	(B)	–	183,752	395.6	46.5	–	–
Numazu	(A)	–	107,406	206.1	52.1	–	–
Obihiro	(A)	–	88,762	153.8	57.7	–	–

COUNTRY & CITY *	TELEPHONE EXCHANGE GEO.[8] SCOPE	TELEPHONE EXCHANGE NBR.	TOTAL TELE-PHONES	POPULA-TION (000)	TOT. TELS. PER 100 POP.	TOTAL MAIN TELS.	TOT. MAIN TELS./ 100 POP.
World Zone 8 (Continued)							
JAPAN (Continued)							
Odawara	(A)	–	87,290	176.8	49.4	–	–
Ogaki	(A)	–	71,012	142.4	49.9	–	–
Oita	(B)	–	178,017	356.1	50.0	–	–
Okayama	(B)	–	303,263	542.5	55.9	–	–
Okazaki	(B)	–	117,233	262.1	44.7	–	–
Omiya	(B)	–	166,349	351.6	47.3	–	–
Osaka	(B)	–	2,121,072	2,558.2	82.9	–	–
Otaru	(B)	–	87,028	182.9	47.6	–	–
Otsu	(B)	–	109,597	214.1	51.2	–	–
Saga	(A)	–	91,735	165.5	55.4	–	–
Sagamihara	(B)	–	184,047	439.0	41.9	–	–
Sakai	(B)	–	364,983	804.3	45.4	–	–
Sapporo	(A)	–	786,631	1,387.8	56.7	–	–
Sasebo	(A)	–	116,479	253.8	45.9	–	–
Schimizu	(B)	–	113,251	242.4	46.7	–	–
Sendai	(A)	–	426,739	642.5	66.4	–	–
Shimonoseki	(B)	–	128,471	262.2	49.0	–	–
Shizuoka	(B)	–	241,089	457.5	52.7	–	–
Soka	(A)	–	90,381	184.9	48.9	–	–
Suita	(B)	–	152,833	325.0	47.0	–	–
Tachikawa	(B)	–	73,950	141.8	52.2	–	–
Takamatsu	(A)	–	218,959	314.7	69.6	–	–
Takaoka	(A)	–	90,548	176.4	51.3	–	–
Takarazuka	(B)	–	82,620	182.7	45.2	–	–
Takasaki	(A)	–	128,546	223.1	57.6	–	–
Takatsuki	(B)	–	140,024	336.6	41.6	–	–
Tokorozawa	(B)	–	101,728	238.5	42.7	–	–
Tokushima	(A)	–	143,033	247.5	57.8	–	–
Tokyo	(B)	–	6,616,682	8,152.3	81.2	–	–
Tomakomai	(A)	–	75,937	152.1	49.9	–	–
Tottori	(B)	–	68,103	129.4	52.6	–	–
Toyama	(A)	–	168,065	303.7	55.3	–	–
Toyohashi	(A)	–	138,866	305.0	45.5	–	–
Toyonaka	(B)	–	192,006	390.6	49.2	–	–
Toyota	(B)	–	119,346	278.4	42.9	–	–
Tsu	(B)	–	81,036	143.5	56.5	–	–
Tsuchiura	(A)	–	84,235	112.4	74.9	–	–
Ube	(B)	–	80,365	167.2	48.1	–	–
Urawa	(A)	–	173,458	356.8	48.6	–	–
Utsunomiya	(A)	–	198,308	378.8	52.4	–	–
Wakayama	(B)	–	206,609	401.8	51.4	–	–
Yamagata	(A)	–	126,888	233.3	54.4	–	–
Yamaguchi	(B)	–	53,827	111.6	48.2	–	–
Yamato	(B)	–	75,753	166.8	45.4	–	–
Yao	(B)	–	123,082	263.6	47.0	–	–
Yokkaichi	(A)	–	132,659	255.5	51.9	–	–
Yokohama	(B)	–	1,348,856	2,787.5	48.4	–	–
Yokosuka	(B)	–	181,698	423.1	42.9	–	–
KAMPUCHEA[387]	–	–	n.r.[387]	5,000.0[388]	–	n.r.	–
Reporting city accounts for –% of the total telephones. Δ							
Reporting city accounts for –% of the total main telephones. Δ							
Reporting city accounts for 4.0% of the total population. Δ							
Phnon-Penh	–	–	n.r.	200.0[389]	–	n.r.	–
‡KOREA, DEM. PEOP. REP.	–	–	n.r.	17,072.0[2]	–	n.r.	–
Reporting city accounts for –% of the total telephones. Δ							
Reporting city accounts for –% of the total main telephones. Δ							
Reporting city accounts for –% of the total population. Δ							
P'Yongyang	–	–	n.r.	–	–	n.r.	–
KOREA, REP. OF	–	–	3,386,800	37,449.0[398]	9.0	2,762,095	7.4
Reporting cities account for 70.4% of the total telephones. Δ							
Reporting cities account for 65.1% of the total main telephones. Δ							
Reporting cities account for 47.0% of the total population. Δ							
Chunchon	–	–	18,436	155.0[398]	11.9	14,096	9.1
Chungju	–	–	26,236	253.0[398]	10.4	20,374	8.1
Daegu	–	–	191,589	1,607.0[398]	11.9	139,025	8.7
Daejon	–	–	74,559	652.0[398]	11.4	61,550	9.4
Inchon	–	–	110,452	1,085.0[398]	10.2	36,379	3.4
Jeju	–	–	24,274	168.0[398]	14.5	19,118	11.4
Jeonju	–	–	36,050	367.0[398]	9.8	32,238	8.8
Kwangju	–	–	67,204	728.0[398]	9.2	55,422	7.6
Masan	–	–	51,608	387.0[398]	13.3	40,005	10.3
Mokpo	–	–	20,822	222.0[398]	9.4	17,899	8.1
Pusan	–	–	344,715	3,160.0[398]	10.9	279,715	8.9
Seoul	–	–	1,375,335	8,367.0[398]	16.4	1,046,002	12.5
Suwon	–	–	31,145	311.0[398]	10.0	28,095	9.0
Wonju	–	–	12,171	137.0[398]	8.9	10,051	7.3
LAOS[392]	–	–	n.r.[392]	3,546.0[2]	–	n.r.	–
Reporting cities account for – % of the total telephones. Δ							
Reporting cities account for – % of the total main telephones. Δ							
Reporting cities account for 6.2% of the total population. Δ							
Louangphrabang	–	–	n.r.	44.2[395]	–	n.r.	–
Vientiane	–	–	n.r.	176.6[395]	–	n.r.	–
MACAO	–	–	14,364	276.0	5.2	14,364	5.2
Reporting cities account for – % of the total telephones. Δ							
Reporting cities account for 13.5% of the total main telephones. Δ							
Reporting cities account for – % of the total population. Δ							
Coloane	(B)	–	– [666]	–	–	178	–
Macau	(B)	–	– [666]	–	–	1,436	–
Taipa	(B)	–	– [666]	–	–	319	–
VIETNAM[400]	–	–	n.r.[400]	49,890.0[2]	–	n.r.	–
Reporting city accounts for –% of the total telephones. Δ							
Reporting city accounts for –% of the total main telephones. Δ							
Reporting city accounts for 5.2% of the total population. Δ							
Hanoi	–	–	n.r.	2,570.9[401]	–	n.r.	–

Summary

Data for reporting cities in World Zone 8 account for 59.5% of the total telephones, 9.3% of the total main telephones and 9.2% of the total population for the Zone.

World Zone 9

AFGHANISTAN[405]	–	–	n.r.[405]	15,108.0[2]	–	n.r.	–
Reporting cities account for – % of the total telephones. Δ							
Reporting cities account for – % of the total main telephones. Δ							
Reporting cities account for 8.8% of the total population. Δ							
Herat	–	–	n.r.	140.3[406]	–	n.r.	–
Kabul	–	–	n.r.	913.2[406]	–	n.r.	–
Kandahar	–	–	n.r.	178.4[406]	–	n.r.	–
Mzar'i Sharif	–	–	n.r.	103.4[406]	–	n.r.	–
BAHRAIN	–	–	72,564	345.0	21.0	n.a.	–
Reporting cities account for – % of the total telephones. Δ							
Reporting cities account for – % of the total main telephones. Δ							
Reporting cities account for 26.1% of the total population. Δ							
Al Muharraq	–	–	n.a.	n.a.	–	n.a.	–
Manama	–	–	n.a.	90.0	–	n.a.	–
‡BHUTAN[520]	–	–	n.r.[520]	1,240.0[2]	–	n.r.	–
Reporting cities account for – % of the total telephones. Δ							
Reporting cities account for – % of the total main telephones. Δ							
Reporting cities account for 1.1% of the total population. Δ							
Paro	–	–	n.r.	3.0[673]	–	n.r.	–
Thimphu	–	–	n.r.	10.0[673]	–	n.r.	–

Table 14: (continued)
Total and Main Telephones in the World's Principal Cities
Reported data as of January 1, 1981

COUNTRY & CITY •	TELEPHONE EXCHANGE GEO.[1] SCOPE	TELEPHONE EXCHANGE NBR.	TOTAL TELE-PHONES	POPULA-TION (000)	TOT. TELS. PER 100 POP.	TOTAL MAIN TELS.	TOT. MAIN TELS./ 100 POP.
World Zone 9 (Continued)							
BURMA[437]	–	–	n.r.[676]	32,265.0[2]	–	n.r.	–
Reporting cities account for – % of the total telephones.Δ							
Reporting cities account for – % of the total main telephones.Δ							
Reporting cities account for 8.2% of the total population.Δ							
Mandalay	–	–	–	417.3[674]	–	–	–
Moulmein	–	–	–	171.8[674]	–	–	–
Rangoon	–	–	–	2,056.1[674]	–	–	–
INDIA[438]	–	–	2,785,096	658,141.0	0.4	2,104,272	0.3
Reporting cities account for 56.9% of the total telephones.Δ							
Reporting cities account for 53.7% of the total main telephones.Δ							
Reporting cities account for 7.5% of the total population.Δ							
Ahmedabad	–	–	71,444	2,515.0[442,443]	2.8	57,387	2.3
Amritsar	–	–	15,971	589.0[442,444]	2.7	13,827	2.4
Bangalore	–	–	73,141	2,914.0[442,443]	2.5	51,500	1.8
Baroda	–	–	18,877	744.0[442,443]	2.5	15,011	2.0
Bombay	–	–	409,525	8,227.0[442,444]	5.0	280,366	3.4
Calcutta	–	–	253,268	9,166.0[442,443]	2.8	174,248	1.9
Chandigarh	–	–	16,097	421.0[442,443]	3.8	12,037	2.9
Coimbatore	–	–	16,903	917.0[442,443]	1.8	13,177	1.4
Delhi	–	–	271,690	5,714.0[442,443]	4.8	192,010	3.4
Ernakulam	–	–	19,157	636.0[442,443]	3.0	13,655	2.2
Hyderabad	–	–	53,807	2,528.0[442,443]	2.3	40,170	1.6
Indore	–	–	16,289	827.0[442,444]	2.0	13,360	1.6
Jaipur	–	–	23,756	1,005.0[442,443]	2.4	17,804	1.8
Kanpur	–	–	26,663	1,688.0[442,443]	1.6	21,968	1.3
Lucknow	–	–	21,899	1,007.0[442,443]	2.2	16,373	1.6
Ludhiana	–	–	16,140	606.0[442,444]	2.7	14,534	2.4
Madras	–	–	119,780	4,277.0[442,443]	2.8	81,239	1.9
Nagpur	–	–	17,833	1,298.0[442,443]	1.4	13,323	1.0
Patna	–	–	17,341	916.0[442,443]	1.9	12,901	1.4
Pune	–	–	48,305	1,685.0[442,443]	2.9	32,630	1.9
Rajkot	–	–	12,685	444.0[443,444]	2.9	10,810	2.4
Surat	–	–	22,389	913.0[442,443]	2.5	19,807	2.2
Trivandrum	–	–	16,590	520.0[442,443]	3.2	11,549	2.2
IRAN	–	–	1,227,293	38,784.00	3.2	–	–
Reporting cities account for 76.8% of the total telephones.							
Reporting cities account for – % of the total main telephones.							
Reporting cities account for 26.8% of the total population.							
Abadan	–	–	21,448	294.0	7.3	–	–
Ahvaz	–	–	25,904	334.0	7.8	–	–
Arak	–	–	21,963	12.0	183.0	–	–
Babol	–	–	6,998	68.0	10.3	–	–
Bakhtaran[419]	–	–	11,417	291.0	3.9	–	–
Gorgan	–	–	5,994	88.0	6.8	–	–
Hamedan	–	–	9,967	166.0	6.0	–	–
Isfahan	–	–	86,066	671.0	12.8	–	–
Karaj	–	–	7,871	13.0	60.6	–	–
Kerman	–	–	10,000	140.0	7.1	–	–
Mashhad	–	–	94,814	670.0	14.2	–	–
Oroomieh	–	–	7,999	163.0	4.9	–	–
Rasht	–	–	34,726	187.0	18.6	–	–
Sari	–	–	4,995	71.0	7.0	–	–
Shiraz	–	–	53,660	416.0	12.9	–	–

COUNTRY & CITY •	TELEPHONE EXCHANGE GEO.[1] SCOPE	TELEPHONE EXCHANGE NBR.	TOTAL TELE-PHONES	POPULA-TION (000)	TOT. TELS. PER 100 POP.	TOTAL MAIN TELS.	TOT. MAIN TELS./ 100 POP.
IRAN (Continued)							
Tabriz	–	–	82,190	597.0	13.8	–	–
Teheran	–	–	419,025	6,000.0	7.0	–	–
Yazd	–	–	31,221	135.0	23.1	–	–
Zahedan	–	–	6,702	93.0	7.2	–	–
IRAQ[433]	–	–	n.r.[433]	13,600.0	–	n.r.	–
Reporting cities account for – % of the total telephones.							
Reporting cities account for – % of the total main telephones.							
Reporting cities account for 84.6% of the total population.							
Al Muthanna	–	–	n.r.	184.0[437]	–	n.r.	–
Al Qadisiya	–	–	n.r.	395.0[437]	–	n.r.	–
Al Ta'meen	–	–	n.r.	439.0[437]	–	n.r.	–
Al-Anbar	–	–	n.r.	405.0[437]	–	n.r.	–
Al-Nasaf	–	–	n.r.	354.0[437]	–	n.r.	–
Arbil	–	–	n.r.	492.0[437]	–	n.r.	–
Babylon	–	–	n.r.	565.0[437]	–	n.r.	–
Baghdad	–	–	n.r.	3,036.0[437]	–	n.r.	–
Basra	–	–	n.r.	897.0[437]	–	n.r.	–
D'Hok	–	–	n.r.	217.0[437]	–	n.r.	–
Dyala	–	–	n.r.	663.0[437]	–	n.r.	–
Kerbela	–	–	n.r.	243.0[437]	–	n.r.	–
Maysan	–	–	n.r.	419.0[437]	–	n.r.	–
Nineveh	–	–	n.r.	1,158.0[437]	–	n.r.	–
Salah-Al-Deen	–	–	n.r.	356.0[437]	–	n.r.	–
Sulaimaniya	–	–	n.r.	656.0[437]	–	n.r.	–
Thi-Qar	–	–	n.r.	617.0[437]	–	n.r.	–
Wasit	–	–	n.r.	409.0[437]	–	n.r.	–
ISRAEL	–	–	1,230,000	3,923.3	31.3	n.a.	–
Reporting cities account for 67.5% of the total telephones.							
Reporting cities account for – % of the total main telephones.							
Reporting cities account for 50.1% of the total population.							
Beersheba	(A)	2[420]	31,000	123.0	25.2	19,020	15.5
Haifa	(A)	11[420]	167,800	385.7	43.5	124,491	32.3
Jerusalem	(A)	10[420]	142,700	422.8	33.8	98,905	23.4
Nazareth	(B)	1[420]	8,794	63.8	13.8	6,261	9.8
Tel Aviv	(A)	25[420]	479,700	974.6	49.2	335,447	34.4
JORDAN[454]	–	–	n.r.[454]	2,884.0	–	n.r.	–
Reporting cities account for – % of the total telephones.							
Reporting cities account for – % of the total main telephones.							
Reporting cities account for 31.5% of the total population.							
Amman	–	–	n.r.	600.0[2]	–	n.r.	–
Az-Zarqa	–	–	n.r.	225.0[2]	–	n.r.	–
Irbid	–	–	n.r.	115.0[2]	–	n.r.	–
KUWAIT[422]	–	–	214,763	1,400.0	15.3	157,486	11.3
Reporting cities account for 100.0% of the total telephones.							
Reporting cities account for 100.0% of the total main telephones.							
Reporting cities account for 100.0% of the total population.							
Kuwait	–	–	214,763	1,400.0	15.3	157,486	11.3
LEBANON[450]	–	–	n.r.[450]	3,149.0[2]	–	n.r.	–
Reporting cities account for – % of the total telephones.							
Reporting cities account for – % of the main telephones.							
Reporting cities account for 35.8% of the total population.							
Beirut	–	–	n.r.	1,000.0[2]	–	n.r.	–
Tripoli	–	–	n.r.	128.0[2]	–	n.r.	–

COUNTRY & CITY *	TELEPHONE EXCHANGE GEO.[8] SCOPE	TELEPHONE EXCHANGE NBR.	TOTAL TELE-PHONES	POPULA-TION (000)	TOT. TELS. PER 100 POP.	TOTAL MAIN TELS.	TOT. MAIN TELS./ 100 POP.
World Zone 9 (Continued)							
MALDIVES	–	–	1,061	143.0	0.7	1,061	0.7
Reporting city accounts for 100.0% of the total telephones. △							
Reporting city accounts for 99.9% of the total main telephones. △							
Reporting city accounts for 100.0% of the total population. △							
Male'	(A)	–	1,061*	143.0	0.7	1,060*	0.7
MONGOLIA[456]	–	–	n.r.[456]	1,576.0[2]	–	n.r.	–
Reporting cities account for – % of the total telephones.							
Reporting cities account for – % of the total main telephones.							
Reporting cities account for 39.5% of the total population.							
Choybalsan	–	–	n.r.	22.0[2]	–	n.r.	–
Darhan	–	–	n.r.	300.0[2]	–	n.r.	–
Ulaanbaatar	–	–	n.r.	300.0[2]	–	n.r.	–
NEPAL[445]	–	–	n.r.[445]	14,315.0[612]	–	n.r.	–
Reporting cities account for – % of the total telephones.							
Reporting cities account for – % of the total main telephones.							
Reporting cities account for 2.1% of the total population.							
Biratnagar	–	–	n.r.	44.9[612]	–	n.r.	–
Birganj	–	–	n.r.	10.8[612]	–	n.r.	–
Kathmandu	–	–	n.r.	190.0[612]	–	n.r.	–
Patan	–	–	n.r.	59.1[612]	–	n.r.	–
Pokhara	–	–	n.r.	n.a.	–	n.r.	–
OMAN[465]	–	–	n.r.[465]	891.0[531]	–	n.r.	–
Reporting cities account for – % of the total telephones.							
Reporting cities account for – % of the total main telephones.							
Reporting cities account for 5.6% of the total population.							
Matrah	–	–	n.r.	n.a.	–	n.r.	–
Muscat	–	–	n.r.	50.0[611]	–	n.r.	–
Nizwa	–	–	n.r.	n.a.	–	n.r.	–
Salalah	–	–	n.r.	n.a.	–	n.r.	–
PAKISTAN	–	–	367,080	83,782.0	0.4	344,420	0.4
Reporting cities account for 62.4% of the total telephones.							
Reporting cities account for – % of the total main telephones.							
Reporting cities account for 57.1% of the total population.							
Abbottabad	(B)	1	925[460]	1,150.0	<0.1	–	–
D. G. Khan	(B)	1	575[460]	1,581.0	<0.1	–	–
Faisalabad	(D)	3	9,811[460]	4,656.0	0.2	–	–
Gujranwala	(D)	2	5,234[460]	2,659.0	0.2	–	–
Gujrat	(B)	1	1,113[460]	2,247.0	<0.1	–	–
Hyderabad	(D)	2	5,552[460]	2,080.0	0.3	–	–
Jhelum	(B)	1	999[460]	1,162.0	<0.1	–	–
Karachi	(D)	19	92,143[460]	5,353.0	1.7	–	–
Kasur	(B)	1	588[460]	1,530.0	<0.1	–	–
Lahore	(D)	12	51,800[460]	3,512.0	1.5	–	–
Mardan	(B)	1	1,190[460]	1,423.0	<0.1	–	–
Migawali	(B)	1	364[460]	1,376.0	<0.1	–	–
Multan	(D)	3	6,523[460]	4,068.0	0.2	–	–
Peshawar	(D)	3	10,200[460]	2,246.0	0.5	–	–
Quetta	(B)	1	4,631[460]	280.0	1.2	–	–
Rawalpindi	(D)	6	25,995[460]	2,458.0	1.1	–	–
Sahiwal	(B)	1	1,341[460]	3,613.0	<0.1	–	–
Sargodha	(B)	1	2,599[460]	2,557.0	0.1	–	–
Sialkot	(B)	1	4,735[460]	2,706.0	0.2	–	–
Sukkur	(D)	3	2,791[460]	1,120.0	0.3	–	–
QATAR	–	–	53,324	204.0	26.1	n.a.	–
Reporting cities account for 92.5% of the total telephones.							
Reporting cities account for – % of the total main telephones.							
Reporting cities account for 73.5% of the total population.							
Doha	(A)	5	40,000	150.0[2]	26.7	22,000	14.7
Dukhan	(A)	1	n.a.	n.a.	–	n.a.	–
Khalifa Town	(A)	1	5,600	n.a.	–	4,800	–
Khor	(A)	1	620	n.a.	–	560	–
Madinat Al Shamal	(A)	1	310	n.a.	–	300	–
Umm Said	(A)	1	1,800	n.a.	–	815	–
Wakrah	(A)	1	1,000	n.a.	–	900	–
SAUDI ARABIA	–	–	442,514	8,300.0	5.3	407,114	4.9
Reporting cities account for 77.3% of the total telephones.							
Reporting cities account for 76.5% of the total main telephones.							
Reporting cities account for 49.6% of the total population.							
Abha	(B)	1	6,989[454]	45.0	15.5	6,354	14.1
Al Kharj	(B)	1	4,243[454]	40.0	10.6	3,837	9.6
Al Khobar	(B)	2	9,450[454]	150.0	6.3	8,591	5.7
Ar Ar	(B)	1	1,857[454]	35.0	5.3	1,688	4.8
Bilijurshi	(B)	2*	1,118[454]	15.0	7.5	1,071	7.1
Buraydah	(B)	2	8,365[454]	80.0	10.5	7,605	9.5
Dammam	(B)	4	20,458[454]	260.0	7.9	18,707	7.2
Hail	(B)	1	7,603[454]	55.0	13.8	6,912	12.6
Hofuf	(B)	2	8,482[454]	160.0	5.3	7,711	4.8
Jeddah	(B)	17	78,882[454]	840.0	9.4	71,902	8.6
Khamis Mushait	(B)	1	4,022[454]	60.0	6.7	3,666	6.1
Makkah[455]	(B)	6	33,669[454]	500.0	6.7	30,608	6.1
Medina	(B)	4	20,577[454]	325.0	6.3	18,707	5.8
Riyadh	(B)	23	103,730[454]	1,130.0	9.2	94,301	8.4
Sakakah	(B)	1	3,140[454]	45.0	7.0	2,855	6.3
Tabuk	(B)	1	5,628[454]	100.0	5.6	5,116	5.1
Taif	(B)	3	21,231[454]	250.0	8.5	19,301	7.7
Yenbu	(B)	1	2,636[454]	30.0	8.8	2,579	8.6
SRI LANKA	–	–	83,500	14,850.0	0.6	60,930	0.4
Reporting cities account for – % of the total telephones. △							
Reporting cities account for 99.5% of the total main telephones. △							
Reporting cities account for 83.8% of the total population. △							
Amuradhapura	(A)	–	–	587.8	–	1,181	0.2
Avissawella	(A)	–	–	14.6	–	169	1.2
Bandarawela	(A)	–	–	41.9	–	1,282	3.1
Batticaloa	(A)	–	–	330.9	–	1,096	0.3
Colombo	(A)	–	–	1,698.3	–	33,121	2.0
Galle	(A)	–	–	814.6	–	1,587	0.2
Gampaha	(A)	–	–	1,389.0	–	1,314	<0.1
Hambantota	(A)	–	–	924.1	–	120	<0.1
Hatton	(A)	–	–	4.8	–	783	16.3
Jaffna	(A)	–	–	831.1	–	2,719	0.3
Kalutara	(A)	–	–	827.2	–	2,762	0.3
Kandy	(A)	–	–	1,126.3	–	6,260	0.6
Kurunhegala	(A)	–	–	1,212.8	–	1,760	0.2
Matale	(A)	–	–	357.4	–	570	0.2
Matara	(A)	–	–	644.2	–	1,525	0.2
Negombo	(A)	–	–	61.4	–	2,075	3.4
Nuwara Eliya	(A)	–	–	522.2	–	716	0.1
Ratnapura	(A)	–	–	796.5	–	922	0.1
Trincomalee	(A)	–	–	256.8	–	663	0.3
SYRIA	–	–	n.r.[477]	7,800.0[527]	–	n.r.	–
Reporting cities account for – % of the total telephones. △							
Reporting cities account for – % of the total main telephones. △							
Reporting cities account for 50.8% of the total population. △							
Aleppo	–	–	n.r.	710.6[2]	–	n.r.	–
Damascus City	–	–	n.r.	936.6[2]	–	n.r.	–
Damascus, Greater	–	–	n.r.	2,000.0[2]	–	n.r.	–
Hims	–	–	n.r.	314.7[2]	–	n.r.	–
TURKEY	–	–	1,902,081	45,217.6	4.2	1,147,782	2.5
Reporting cities account for 67.5% of the total telephones. △							
Reporting cities account for 59.3% of the total main telephones. △							
Reporting cities account for 19.9% of the total population. △							
Adana	(B)	–	27,335	574.0	4.8	13,449	2.3

Table 14: (continued)
Total and Main Telephones in the World's Principal Cities
Reported data as of January 1, 1981

COUNTRY & CITY *	TELEPHONE EXCHANGE GEO.[8] SCOPE	TELEPHONE EXCHANGE NBR.	TOTAL TELE-PHONES	POPULA-TION (000)	TOT. TELS. PER 100 POP.	TOTAL MAIN TELS.	TOT. MAIN TELS./ 100 POP.
World Zone 9 (Continued)							
TURKEY (Continued)							
Ankara	(B)	–	357,085	1,877.0	19.0	140,298	7.5
Antalya	(B)	–	12,870	173.0	7.4	6,173	3.6
Bursa	(B)	–	31,380	445.0	7.1	19,673	4.4
Denizli	(B)	–	7,660	135.0	5.7	5,969	4.4
Erzurum	(B)	–	16,502	190.0	8.7	8,881	4.7
Eskisehir	(B)	–	15,139	309.0	4.9	10,200	3.3
Gazianter	(B)	–	14,962	374.0	4.0	10,330	2.8
Istanbul	(B)	–	613,025	2,772.0	22.1	339,502	12.3
Izmir	(B)	–	104,099	757.0	13.8	65,966	8.7
Izmit	(B)	–	17,032	190.0	9.0	10,100	5.3
Kayseri	(B)	–	13,737	281.0	4.9	11,337	4.0
Konya	(B)	–	20,996	329.0	6.4	14,269	4.3
Malatya	(B)	–	7,873	179.0	4.4	5,961	3.3
Mersin	(B)	–	10,384	216.0	4.8	7,947	3.7
Samsun	(B)	–	14,503	199.0	7.3	10,093	5.1
UNITED ARAB EMIRATES	–	–	**208,896**	**1,043.1**	**20.0**	**109,495**	**10.5**
Reporting cities account for 92.1% of the total telephones.△							
Reporting cities account for 93.8% of the total main telephones.△							
Reporting cities account for 79.8% of the total population.△							
Abu Dhabi	(B)	6	68,286	243.0	28.1	36,648	15.1
Ajman	(B)	1	5,637	33.7	16.7	2,692	8.0
Al Ain	(B)	4	9,599	101.7	9.4	5,880	5.8
Dubai	(B)	9	72,476	265.7	27.3	37,914	14.3
Fujeirah	(B)	1	1,842	12.7	14.5	1,161	9.1
Ras Al Khaimah	(B)	1	6,486	41.4	15.7	3,979	9.6
Sharjah	(B)	4	26,646	125.1	21.3	13,670	10.9
Umm Al Quwain	(B)	1	1,349	9.5	14.2	751	7.9
YEMEN (ADEN)[617]	–	–	**n.r.**[617]	**1,969.0**[524]	–	**n.r.**	–
Reporting cities account for – % of the total telephones.△							
Reporting cities account for – % of the total main telephones.△							
Reporting cities account for 14.7% of the total population.△							
Aden	–	–	n.r.	225.0[2]	–	n.r.	–
Almukaua	–	–	n.r.	45.0[2]	–	n.r.	–
Mukalla[621]	–	–	n.r.[623]	–	–	n.r.	–
Say'un	–	–	n.r.	20.0[2]	–	n.r.	–
YEMAN (SANAA)	–	–	**n.r.**	**5,926.0**[525]	–	**n.r.**	–
Reporting cities account for – % of the total telephones.△							
Reporting cities account for – % of the total main telephones.△							
Reporting cities account for 2.2% of the total population.△							
Hodeida	–	–	n.r.	–	–	n.r.	–
Sanaa	–	–	n.r.	130.0[2]	–	n.r.	–
Taiz	–	–	n.r.	–	–	n.r.	–

Summary

Data for reporting cities in World Zone 9 account for 66.0% of the total telephones; 70.5% of the total main telephones and 16.8% of the total population for the Zone.

World Summary

Data for reporting cities in all Zones, account for 47.8% of the total telephones; 36.8% of the total main telephones and 19.2% of the total population for the World.

Table 15:
United States Principal Cities' Distribution of Resident and Business Telephones
Reported data are as of January 1, 1981

CITY • & STATE	TELEPHONE RESIDENCE	TELEPHONE BUSINESS
Abilene, Texas	63,352	27,545
Akron, Ohio	265,977	85,437
Albany, Georgia	62,385	21,500
Albany, N.Y.	94,850	73,862
Albuquerque, N.M.	231,430	96,945
Alexandria, Louisiana	59,974	21,037
Alexandria, Va.	262,586	157,341
Alhambra, California	129,224	41,594
Allentown, Pa.	112,708	43,024
Altoona, Pa.	47,948	13,104
Amarillo, Texas	107,646	41,343
Anaheim, Calif.	165,094	72,578
Anchorage, Alaska	n.a.	n.a.
Anderson, Ind.	52,089	15,050
Ann Arbor, Mich.	80,192	55,807
Appleton, Wis.	49,553	19,145
Arlington, Mass.	32,156	4,598
Arlington, Texas	94,766	26,594
Arlington Heights, Ill.	89,759	25,608
Arvada, Colorado (Included in Denver Exchange)		
Asheville, N.C.	55,535	25,207
Athens, Georgia	46,485	24,789
Atlanta, Georgia	616,147	338,654
Aurora, Colorado (Included in Denver)		
Aurora, Illinois	78,856	24,358
Austin, Texas	295,348	131,814
Bakersfield, Calif.	154,967	51,705
Baltimore, Maryland	1,119,314	374,372
Baton Rouge, La.	231,511	92,051
Bayonne, N.J.	42,069	9,972
Baytown, Texas	n.a.	n.a.
Beaumont, Texas	75,173	31,359
Bellevue, Wash.	70,827	23,096
Berkeley, Calif. (Included in East Bay Exchange)		
Berwyn, Illinois	39,654	6,498
Bethlehem, Pa.	65,757	23,525
Billings, Montana	61,850	25,665
Biloxi, Miss.	30,678	11,014
Binghamton, N.Y.	59,710	28,238
Birmingham, Alabama	346,956	144,801
Bloomington, Indiana	39,093	23,985
Bloomington, Minn. (Included in Minneapolis-St. Paul)		
Boise, Idaho	96,528	43,849
Boston, Mass.	297,304	247,185
Boulder, Colo. (Included in Denver Exchange)		
Bradenton, Fla.	77,276	19,137
Bridgeport, Conn.	133,178	55,902
Bristol, Conn.	39,754	7,379
Brockton, Mass.	61,155	17,710
Brookline, Mass.	57,145	31,434
Brownsville, Texas	37,283	15,302
Buena Park, Calif.	39,311	17,493
Buffalo, N.Y.	295,456	100,309
Burbank, Calif.	77,856	54,761
Cambridge, Mass.	56,649	53,539
Camden, N.J.	53,075	23,119
Canton, Ohio	101,207	28,669
Casper, Wyoming	47,963	23,176
Cedar Rapids, Iowa	99,000	35,300
Champaign, Ill.	78,464	39,592
Charleston, S.C.	155,568	65,042
Charleston, W. Va.	145,113	65,648
Charlotte, N.C.	272,692	124,506
Chattanooga, Tenn.	194,790	64,429
Chesapeake, Va. (Included in Norfolk, Virginia)		
Chicago, Ill.	1,902,525	886,968
Chicopee, Mass.	18,138	4,494
Chula Vista, Calif.	104,482	19,496
Cicero, Illinois	39,798	13,037
Cincinnati, Ohio	566,510	222,329
Clearwater, Fla.	188,193	54,380
Cleveland, Ohio	667,052	268,910
Cleveland Heights, Ohio (Included in Cleveland)		
Clifton, New Jersey (Included in Passaic Exchange)		
Colo. Springs, Colo.	174,724	68,389
Columbia, Missouri	n.a.	n.a.
Columbia, S.C.	203,358	98,481
Columbus, Georgia	105,894	39,644
Columbus, Ohio	328,276	164,233
Compton, Calif.	187,451	89,263
Concord, Calif.	81,814	24,751
Corpus Christi, Texas	136,366	55,305
Costa Mesa, Calif. (Included in Newport Beach, California)		
Council Bluffs, Iowa	43,100	10,600
Covina, Calif.	264,641	73,248
Covington, Kentucky	105,762	21,004
Cranston, R.I. (Included in Providence, Rhode Island)		
Dallas, Texas	750,964	230,408
Daly City, Calif. (Included in San Francisco)		
Danbury, Conn.	62,578	23,931
Danville, Va.	33,820	9,268
Davenport, Iowa	95,900	30,000
Daytona, Fla.	98,293	35,304
Dayton, Ohio	280,189	104,360
Dearborn, Mich. (Included in Detroit, Michigan)		
Dearborn Heights, Mich. (Included in Detroit, Michigan)		
Decatur, Illinois	77,648	23,614
Denton, Texas	n.a.	n.a.
Denver, Colorado	1,008,135	423,173
Des Moines, Iowa	199,000	92,500
Des Plaines, Illinois	57,622	40,061
Detroit, Michigan	1,127,678	398,564
Downey, Calif.	214,318	82,125
Dubuque, Iowa	42,600	17,000
Duluth, Minnesota	72,300	23,900
Durham, N.C.	88,301	40,932
East Bay Exchange, Calif.	412,764	202,074
East Hartford, Conn. (Included in Hartford Exchange)		
East Lansing, Mich. (Included in Lansing, Michigan)		
East Orange, N.J. (Included in Orange Exchange)		
East St. Louis, Ill.	55,748	11,293
Eau Claire, Wisconsin	39,557	17,058
El Cajon, Calif.	124,575	25,025
El Monte, Calif.	49,761	24,933
El Paso, Texas	209,205	76,622
Elgin, Illinois	58,036	16,348
Elizabeth, N.J.	70,921	29,270
Elyria, Ohio	44,602	12,509
Enid, Oklahoma	35,118	14,619
Erie, Pennsylvania	105,780	43,356
Escondido, Calif.	74,350	21,195
Euclid, Ohio (Included in Cleveland)		
Eugene-Springfield, Ore.	118,619	40,826
Evanston, Illinois	62,380	25,602
Evansville, Indiana	97,809	37,096
Everett, Wash.	56,617	19,186
Fairbanks, Alaska	n.a.	n.a.
Fairfield, Calif.[154]	42,644	14,896
Fairfield, Conn.	26,760	6,187
Fall River, Mass.	69,188	16,675
Fargo, N.D.-Moorehead, Minn.	78,200	34,800
Farmington, Michigan	55,514	16,186
Farmington Hills, Michigan (Included in Farmington, Michigan)		
Fayetteville, N.C.	114,082	44,705
Flint, Michigan	182,053	50,413
Florissant, Mo.	57,966	6,971
Ft. Lauderdale, Fla.	346,465	117,188
Fort Collins, Colo.	52,760	21,081
Ft. Myers, Fla.	56,297	28,874
Fort Smith, Arkansas	45,352	19,398
Fort Wayne, Indiana	127,599	55,629
Fort Worth, Texas	255,158	113,092
Fountain Valley, Calif. (Included in Huntington-Beach, Calif.)		
Framingham, Mass.	49,163	18,930
Fremont City, Calif.[247]	120,923	27,074
Fresno, Calif.	216,950	78,187
Fullerton, Calif.	64,993	40,685
Gadsden, Alabama	46,310	11,541
Gainesville, Fla.	69,197	36,400
Galveston, Texas	38,575	20,387
Garden Grove, Calif.	74,009	16,621
Garland, Texas	n.a.	n.a.
Gary, Indiana	78,192	18,010
Gastonia, N.C.	54,921	15,920
Glendale, Arizona (Included in Phoenix Exchange)		
Glendale, Calif.	78,217	34,721
Grand Prairie, Texas	46,139	26,080
Grand Rapids, Mich.	245,280	78,700
Great Falls, Montana	44,107	18,335
Greeley, Colorado	39,712	16,305
Green Bay, Wisconsin	74,697	29,390
Greensboro, N.C.	154,560	63,245
Greenville, S.C.	136,785	53,715
Gulfport, Miss.	46,236	15,869
Haddonfield, N.J.	54,688	16,879
Hamden, Conn. (Included in New Haven Exchange)		
Hamilton, Ohio	73,769	19,926
Hammond, Indiana	62,925	13,996
Hampton, Va. (Included in Newport News, Virginia)		
Harrisburg, Pa.	147,671	71,559
Hartford, Conn.	208,252	129,750
Hawthorne, Calif.	47,968	44,178
Hayward, Calif.	117,161	40,998
Hialeah, Fla. (Included in Miami Exchange)		
High Point, N.C.	60,168	22,747
Hollywood, Fla.	209,688	44,107
Honolulu, Hawaii	n.a.	n.a.
Houma, Louisiana	41,015	15,328
Houston, Texas	925,235	589,581
Huntington, W. Va.	72,203	24,272
Huntington Beach, Calif.	135,240	24,983
Huntsville, Alabama	101,544	52,608
Independence, Mo.	54,413	10,790
Indianapolis, Ind.	479,116	196,820
Inglewood, Calif.	87,954	58,961
Irvine, Calif. (Included in Newport Beach, Calif.)		
Irving, Texas	n.a.	n.a.
Jackson, Miss.	153,665	73,508
Jacksonville, Fla.	321,814	126,715
Janesville, Wis.	35,221	10,348
Jersey City, N.J.	142,772	48,163
Joliet, Illinois	81,170	24,467
Kalamazoo, Mich.	116,651	47,261
Kansas City, Kans.	129,710	46,441
Kansas City, Mo.	196,976	147,624
Keansburg, N.J.	18,863	1,870
Kenner, La.	73,136	12,283
Kenosha, Wisconsin	53,540	16,374
Kettering, Ohio (Included in Dayton, Ohio)		
Knoxville, Tenn.	163,476	70,361
Lafayette, La.	72,899	34,358
Lake Charles, La.	69,773	24,592
Lakeland, Fla.	72,157	22,297
Lakewood, Colo. (Included in Denver Exchange)		
Lakewood, Ohio (Included in Cleveland, Ohio)		
La Mesa, Calif.	111,348	19,770
Lancaster, Pa.	81,735	33,697
Lansing, Michigan	151,209	88,543
Laredo, Texas	37,528	17,100
Las Vegas, Nevada	299,909	122,811
Lawrence, Kansas	35,671	15,534
Lawrence, Mass.	62,627	23,181
Lawton, Oklahoma	50,447	14,015
Lexington, Kentucky	122,383	60,796
Lima, Ohio	40,247	20,529
Lincoln, Nebraska	110,500	58,900
Little Rock, Arkansas	198,123	84,057
Livonia, Michigan	94,396	28,641
Long Beach, Calif.	277,638	109,743
Longview, Texas	55,135	20,425
Lorain, Ohio	42,642	10,826
Los Angeles, Calif.	580,794	989,930
Louisville, Kentucky	443,073	146,021
Lowell, Mass.	84,628	26,735
Lubbock, Texas	120,657	53,453
Lynchburg, Va.	64,736	23,053

CITY • & STATE	TELEPHONE RESIDENCE	TELEPHONE BUSINESS
Lynn, Mass.	59,618	20,221
Macon, Georgia	92,855	31,486
Madison, Wisconsin	126,936	75,174
Malden, Mass.	32,443	7,574
Manchester, N.H.	59,475	26,648
Mansfield, Ohio	45,771	19,715
Medford, Mass.	29,459	5,730
Memphis, Tenn.	488,919	156,488
Mercerville, N.J.	44,596	9,958
Meriden, Conn.	33,589	9,436
Meridian, Miss.	36,269	11,879
Mesa, Arizona (Included in Phoenix Exchange)		
Metuchen, N.J.	45,047	17,911
Miami, Florida	839,277	365,545
Miami Beach, Florida (Included in Miami Exchange)		
Midland, Texas	58,035	29,155
Middletown, Ohio	35,915	11,202
Midwest City, Ohio (Included in Oklahoma City)		
Milford, Conn.	33,409	9,512
Milton, Mass.	32,060	4,941
Milwaukee, Wisconsin	644,366	259,778
Minneapolis-St. Paul, Minn.	1,223,800	483,000
Mobile, Alabama	199,331	60,564
Modesto, Calif.	107,132	32,569
Monroe, Louisiana	75,816	26,784
Montebello, Calif.	47,505	33,605
Montgomery, Alabama	122,986	45,608
Mt. Prospect, Ill. (Included in Arlington Heights Exchange)		
Mt. Vernon, N.Y.	99,782	17,888
Mountain View, Calif.	52,837	30,850
Muncie, Indiana	57,485	23,506
Muskegon, Mich.	65,958	23,160
Napa, Calif.	44,813	12,522
Nashville, Tenn.	307,949	123,563
Nashua, N.H.	51,630	25,461
National City, Calif.	53,089	8,678
New Bedford, Mass.	77,802	20,575
New Britain, Conn.	49,763	13,370
New Haven, Conn.	201,218	84,485
New Iberia, La.	28,785	8,552
New Orleans, La.	580,275	218,555
New Rochelle, N.Y.	49,932	10,448
New York, New York	3,971,440	1,836,705
Newark, New Jersey	223,636	118,062
Newport Beach, Calif.	97,364	39,013
Newport News, Metro Area, Va.	164,635	47,323
Newton, Mass.	61,601	19,052
Niagara Falls, N.Y.	44,401	16,495
Norfolk Metro Area, Va.	381,853	117,947
Norman, Okla. (Included in Oklahoma City)		
North Little Rock, Ark. (Included in Little Rock Exchange)		
Norwalk, Conn.	52,592	22,984
Oak Lawn, Ill.	111,752	20,875
Oak Park, Ill.	47,091	10,604
Oakland, Calif. (Included in East Bay Exchange)		
Oceanside, Calif.	66,501	17,055
Odessa, Texas	72,798	27,978
Ogden, Utah	74,145	20,664
Oklahoma City, Okla.	500,850	204,157
Omaha, Nebraska	387,700	128,700
Ontario, Calif.	121,922	29,772
Orange, New Jersey	110,920	31,065
Orange, Calif.	99,424	40,321
Orlando, Florida	197,398	93,760
Overland Park, Kansas[783]	118,367	29,951
Owensboro, Kentucky	37,308	14,623
Oxnard, Calif.	105,288	32,263
Palo Alto, Calif.	87,639	79,465
Parkersburg, W. Va.	46,884	16,209
Parma, Ohio	64,052	10,513
Pasadena, Calif.	143,822	67,848
Pasadena, Texas (Included in Houston, Texas)		
Passaic, New Jersey	112,441	35,846
Paterson, New Jersey	102,682	30,932
Pawtucket, R.I.	76,703	19,463
Pensacola, Florida	121,821	43,405
Peoria, Ill.	154,306	54,547
Petersburg, Va.	51,055	11,688
Philadelphia, Pa.	1,271,147	454,139
Phoenix, Arizona	965,972	319,880
Pine Bluff, Arkansas	40,880	13,775
Pittsburgh, Pa.	559,419	265,180
Pittsfield, Mass.	33,323	14,299
Plano, Texas	n.a.	n.a.
Point Pleasant, N.J.	61,993	9,559
Pomona, Calif.	184,533	56,744
Pompano Beach, Fla.	162,152	34,456
Pontiac, Michigan	97,249	35,583
Port Arthur, Texas	45,064	12,560
Portland, Maine	33,414	25,022
Portland, Oregon	339,687	144,749
Portsmouth, Va. (Included in Norfolk, Virginia)		
Provo-Orem, Utah	61,464	20,175
Providence, R.I.	196,847	94,673
Pueblo, Colorado	64,487	21,651
Quincy, Mass.	51,729	17,932
Racine, Wisconsin	74,740	29,440
Raleigh, N.C.	152,977	74,978
Reading, Pa.	121,102	38,568
Redondo, Calif.	176,168	44,931
Redwood City, Calif.	46,331	21,870
Reno, Nevada	118,658	60,573
Richardson, Texas	71,622	38,640
Richmond, Calif.	77,140	23,985
Richmond, Va.	297,194	111,826
Riverside, Calif.	149,430	46,153
Roanoke, Va.	108,283	32,842
Rochester, Minn.	46,200	30,100
Rochester, N.Y.	233,942	104,246
Rockford, Ill.	156,478	49,353
Rock Island, Ill.	47,993	13,657
Rome, Georgia	45,381	14,178
Roseville, Mich.	134,758	25,582
Royal Oak, Michigan	162,296	52,256
Sacramento, Calif.	411,749	185,953
Saginaw, Michigan	107,700	32,501
St. Clair Shores, Mich. (Included in Roseville, Michigan Exchange)		
St. Joseph, Missouri	51,446	16,151
St. Louis, Missouri	387,681	203,908
St. Paul, Minnesota (Included in Minneapolis-St. Paul, Minnesota)		
St. Petersburg, Fla.	247,377	75,754
Salem, Oregon	90,702	33,507
Salinas, Calif.	57,828	20,802
Salt Lake City, Utah	404,898	148,374
San Angelo, Texas	n.a.	n.a.
San Antonio, Texas	371,717	151,817
San Bernardino, Calif.	79,183	34,422
San Diego, Calif.	353,191	204,356
San Francisco, Calif.	492,939	395,648
San Jose, Calif.	489,617	208,925
San Mateo, Calif.	101,766	39,717
Santa Ana, Calif.	361,531	203,639
Santa Barbara, Calif.	105,080	51,884
Santa Clara, Calif. (Included in San Jose, California)		
Santa Monica, Calif.	189,279	88,881
Santa Rosa, Calif.	88,819	31,288
Sarasota, Fla.	108,812	37,016
Savannah, Georgia	117,093	42,163
Schaumburg, Illinois	101,819	23,821
Schenectady, N.Y.	98,714	32,860
Scottsdale, Ariz. (Included in Phoenix Exchange)		
Scranton, Pa.	69,620	25,820
Seattle, Washington	431,770	201,948
Shreveport, La.	172,912	61,483
Simi, California	48,108	7,795
Sioux City, Iowa	58,100	20,700
Sioux Falls, S.D.	62,000	25,500
Skokie, Illinois	111,006	47,639
Somerville, Mass.	41,762	8,601
South Bend, Ind.	104,700	43,209
Southfield, Mich.	69,485	58,031
South San Francisco, Calif.	57,449	32,408
Spartanburg, S.C.	73,407	26,769
Spokane, Washington	183,258	46,723
Springfield, Ill.	110,646	52,930
Springfield, Mass.	117,267	44,355
Springfield, Missouri	99,701	37,599
Springfield, Ohio	60,585	16,281
Stamford, Connecticut	78,217	45,371
Sterling Heights, Mich. (Included in Warren, Michigan)		
Stockton, Calif.	126,059	40,441
Stratford, Conn. (Included in Bridgeport Exchange)		
Sunnyvale, Calif.	66,572	65,241
Syracuse, New York	170,171	72,771
Tacoma, Washington	205,298	47,435
Tallahassee, Fla.	76,637	48,431
Tampa, Florida	320,223	139,236
Taunton, Mass.	31,681	8,084
Taylor, Michigan (Included in Detroit, Michigan)		
Tempe, Arizona (Included in Phoenix, Arizona)		
Terre Haute, Ind.	51,551	30,702
Texarkana, Texas	n.a.	n.a.
Thousands Oaks, Calif.	62,923	20,236
Toledo, Ohio	237,353	87,129
Toms River, N.J.	68,548	14,767
Topeka, Kansas	108,874	43,278
Torrance, Calif.	21,825	17,957
Trenton, New Jersey	68,824	40,099
Troy, Michigan	21,387	8,674
Troy, New York	62,878	14,811
Tucson, Arizona	308,162	101,711
Tulsa, Oklahoma	311,258	138,130
Tuscalcosa, Alabama	71,006	23,921
Tyler, Texas	62,540	23,736
Union City, New Jersey	108,123	31,071
Unionville, N.J.	41,939	17,758
Utica, New York	65,734	23,226
Valdosta, Georgia	31,971	13,595
Vallejo, Calif.	52,840	17,715
Ventura, Calif.	44,470	22,036
Vineland, New Jersey	39,071	12,800
Virginia Beach, Va. (Included in Norfolk, Virginia)		
Visalia, Calif.	45,515	16,023
Waco, Texas	97,223	34,848
Walnut Creek, Calif.	71,983	25,894
Waltham, Mass.	40,341	35,965
Warren, Mich.	127,631	54,441
Warren, Ohio	54,793	24,888
Warwick, R.I.	32,997	9,097
Washington, D.C.	522,063	581,194
Waterbury, Conn.	68,338	23,357
Waterloo, Iowa	58,600	20,900
Waukegan, Ill.	77,421	32,670
Waukesha, Wis.	38,778	15,740
Wauwatosa, Wis. (Included in Milwaukee Exchange)		
Wayne, Michigan	65,186	14,385
Weirton, W. Va.	37,230	9,128
West Allis, Wis. (Included in Milwaukee Exchange)		
West Hartford, Conn. (Included in Hartford Exchange)		
West Haven, Conn. (Included in New Haven Exchange)		
Westland, Michigan (Included in Wayne, Michigan Exchange)		
Westminster, Calif.	71,371	31,527
West Palm Beach, Fla.	267,263	82,956
Weymouth, Mass.	31,255	5,670
Wheeling, W. Va.	50,072	17,690
White Plains, N.Y.	45,169	55,120
Whittier, Calif.	164,629	51,493
Wichita, Kansas	174,600	85,734
Wichita Falls, Texas	60,613	26,939
Wilkes-Barre, Pa.	54,442	19,848
Wilmington, Del.	136,971	75,644
Wilmington, N.C.	61,715	21,483
Winston-Salem, N.C.	136,419	52,501
Winter Park, Fla.	120,191	46,220
Woodbridge, N.J.	21,896	10,633
Worcester, Mass.	101,528	45,060
Wyoming, Michigan (Included in Grand Rapids, Michigan)		
Yonkers, New York	67,405	16,250
York, Pennsylvania	74,627	33,183
Youngstown, Ohio	154,390	36,162

Table 16:
Distribution of Telephones in the United States by States
Reported data are as of January 1, 1981

	Total Number of Telephones	Distribution of Telephones: By Ownership: Bell System Companies[423]	Bell Assoc. SNET & Cinn. Bell	Bell Service[429]	Independent Companies	By Type of Service: Residence	Business	Resident Population[413]	Households	Total Telephones per 100 Population	Residence Main Telephones per 100 Households
Alabama	2,607,952	2,140,168	–	13,511	454,273	1,989,175	618,777	3,926,000	1,364,000	66.43	86.92
Alaska	304,541	–	–	–	304,541	185,537	119,000	404,000	133,000	62.87	72.11
Arizona	2,109,488	2,006,677	–	6,803	96,008	1,563,704	545,784	2,783,000	988,000	75.80	93.84
Arkansas	1,476,741	1,033,625	–	187	442,929	1,117,994	358,747	2,302,000	829,000	64.15	86.54
California	20,880,656	16,160,411	–	39,922	4,680,323	14,822,886	6,057,770	24,004,000	8,824,000	86.99	101.17
Colorado	2,451,231	2,402,450	–	6,912	41,869	1,744,961	706,270	2,941,000	1,089,000	83.35	95.94
Connecticut	2,705,133	62,097	2,623,547	–	19,489	2,005,660	699,473	3,115,000	1,106,000	86.84	103.91
Delaware	534,188	534,188	–	–	–	388,228	145,960	596,000	209,000	89.63	100.85
Dist. of Col.	1,106,368	1,103,257	–	3,111	–	522,063	584,305	631,000	252,000	175.34	110.03
Florida	8,277,482	5,316,020	–	12,152	2,949,310	6,186,830	2,090,652	9,908,000	3,837,000	83.54	96.73
Georgia	4,245,999	3,617,714	–	23,325	604,960	3,143,861	1,102,138	5,509,000	1,903,000	77.07	89.17
Hawaii	712,095	–	–	–	712,095	461,532	252,725	977,000	300,000	73.90	103.25
Idaho	707,315	556,272	–	31	151,012	524,239	183,076	964,000	334,000	73.37	93.05
Illinois	10,314,906	8,555,542	–	–	1,759,364	7,740,444	2,574,462	11,443,000	4,086,000	90.14	98.97
Indiana	4,166,434	2,665,370	3,724	1,552	1,495,788	3,183,064	983,370	5,508,000	1,949,000	75.64	92.42
Iowa	2,312,255	1,574,385	–	–	737,870	1,746,776	565,479	2,922,000	1,065,000	79.13	97.29
Kansas	1,992,067	1,654,591	–	618	336,858	1,504,871	487,196	2,382,000	886,000	83.63	97.07
Kentucky	2,347,628	1,430,279	200,959	18,695	697,695	1,784,088	563,540	3,695,000	1,287,000	63.54	86.18
Louisiana	2,998,226	2,810,937	–	8,351	178,938	2,273,191	725,035	4,247,000	1,438,000	70.60	91.86
Maine	811,841	711,103	–	33	100,705	626,780	185,061	1,133,000	401,000	71.65	98.33
Maryland	3,606,320	3,564,326	–	37,138	4,856	2,696,628	909,692	4,230,000	1,478,000	85.26	101.31
Massachusetts	4,629,265	4,624,155	–	936	4,174	3,371,923	1,257,342	5,736,000	2,050,000	80.71	101.14
Michigan	7,305,008	6,340,698	–	1,850	962,460	5,567,635	1,737,373	9,288,000	3,232,000	78.65	98.83
Minnesota	3,219,112	2,511,697	–	679	706,736	2,379,016	840,096	4,107,000	1,469,000	78.38	98.56
Mississippi	1,579,001	1,494,020	–	3,938	81,043	1,218,584	360,417	2,541,000	841,000	62.14	81.88
Missouri	3,876,602	3,072,602	–	809	803,191	2,905,020	971,582	4,943,000	1,818,000	78.43	95.07
Montana	623,211	513,869	–	195	109,147	455,912	167,299	795,000	289,000	78.39	95.57
Nebraska	1,324,919	756,021	–	–	568,898	989,941	334,978	1,576,000	578,000	84.07	100.36
Nevada	761,823	256,962	–	1,030	503,831	522,082	239,741	830,000	319,000	91.79	88.21
New Hampshire	723,589	684,292	–	–	39,297	545,198	178,391	936,000	331,000	77.31	100.21
New Jersey	6,724,802	6,554,603	–	10,843	159,356	4,999,405	1,725,397	7,387,000	2,577,000	91.04	107.95
New Mexico	878,317	738,106	–	20,507	119,704	616,374	261,943	1,322,000	452,000	66.44	86.15
New York	12,972,938	11,810,174	–	2,975	1,159,789	9,492,742	3,480,196	17,490,000	6,368,000	74.17	97.95
North Carolina	4,260,509	2,243,685	–	–	2,016,824	3,212,481	1,048,028	5,917,000	2,073,000	72.00	90.50
North Dakota	582,152	432,752	–	57	149,343	427,610	154,542	657,000	232,000	88.61	106.07
Ohio	8,134,567	5,071,129	1,011,939	28,723	2,022,776	6,180,998	1,953,569	10,799,000	3,867,000	75.33	94.61
Oklahoma	2,446,239	2,091,294	–	8,659	346,286	1,799,883	646,356	3,066,000	1,143,000	79.79	93.92
Oregon	2,046,122	1,477,315	–	216	568,591	1,462,266	583,856	2,706,000	1,027,000	75.61	90.01
Pennsylvania	9,877,461	7,965,575	–	474	1,911,412	7,519,932	2,357,529	11,857,000	4,253,000	83.30	99.15
Rhode Island	730,830	730,830	–	–	–	549,827	181,003	944,000	341,000	77.42	98.16
South Carolina	2,130,377	1,520,548	–	4,200	605,629	1,595,719	534,658	3,148,000	1,049,000	67.67	86.66
South Dakota	526,422	412,705	–	–	113,717	388,923	137,499	692,000	245,000	76.07	93.35
Tennessee	3,255,755	2,701,400	–	393	553,962	2,476,923	778,832	4,638,000	1,649,000	70.20	89.59
Texas	11,344,044	9,119,896	–	54,317	2,169,831	8,123,163	3,220,881	14,501,000	5,065,000	78.23	93.13
Utah	1,077,763	1,020,666	–	14,811	42,286	804,001	273,762	1,500,000	465,000	71.85	93.94
Vermont	375,577	322,031	–	–	53,546	276,925	98,652	516,000	181,000	72.79	101.41
Virginia	3,947,123	3,077,813	–	23,023	846,287	2,932,113	1,015,010	5,385,000	1,892,000	73.30	92.84
Washington	3,326,258	2,422,098	–	9,584	894,576	2,379,959	946,299	4,230,000	1,590,000	78.63	93.36
West Virginia	1,140,361	979,050	–	–	161,311	874,524	265,837	1,967,000	698,000	57.97	85.87
Wisconsin	3,570,248	2,448,882	–	23	1,121,343	2,662,194	908,054	4,735,000	1,677,000	75.40	99.43
Wyoming	405,398	380,131	–	1,187	24,080	281,699	123,699	490,000	174,000	82.73	91.49
United States	180,383,387	141,674,411	3,840,169	361,770	34,588,037	133,225,484	47,241,333	228,319,000	81,703,000	79.02	96.19

American Telephone & Telegraph Co.
Comptrollers – Accounting Division
June, 1981

Table 17:
Reported Data Revisions for January 1, 1980 Edition.
Part 1: Responding Countries' revised data.

This section of the "The World's Telephones" reflects revised January 1, 1980 data reported during the survey for the January 1, 1981 publication. The 1979 data, superseded by these revisions, was originally displayed in the January 1, 1980 edition of the "The World's Telephones."

These revisions were included, when possible, for the calculations displayed in Table 16; Percent change from January 1, 1980 reported data.

"The World's Telephones" publication staff gratefully acknowledges the following countries' efforts.

World Zone 1
Bahamas
Barbados
Bermuda
Virgin Islands

World Zone 2
Algeria
Ethiopia
Gabon
Kenya
Reunion

South Africa
Tunisia
Zimbabwe

World Zone 3 and 4
Austria
Belgium
Cyprus
Czechoslavakia
Denmark

Finland
France
Germany, Fed. Rep.
German Dem. Rep.
Gibraltar

Greece
Guernsey, C.I.
Iceland
Jersey, C.I.
Netherlands

Norway
Poland
Portugal
Spain
Sweden

United Kingdom
Yugoslavia

World Zone 5
Chile
El Salvador
Guadeloupe
French Guiana
Martinique

Mexico
Uruguay

World Zone 6
Brunei
Norfolk Island
Papua New Guinea
Philippines
Singapore

Solomon Islands
Thailand

World Zone 8
China-Taiwan

World Zone 9
India
Kuwait

World Zone 1

Bahamas

Conversations – Percent of International Outgoing Calls ISD	46.6%

Most Frequently Called Country:

Fourth	Switzerland
Fifth	Germany, Fed. Rep.

Principal Cities	Main Telephones
Abaco	543

Barbados

EMSS Controlled Telephones	47,305
ESS Controlled Telephones	11,762
Total Telephones	59,067
Private Company	58,067
Capable of International Service	59,067
Conversations – Local Pulse Metered	236,000.0
International Pulse Metered	–
International all other	580.0

Most Frequently Called Country:

Second	United Kingdom
Fourth	Trinidad
Sixth	St. Vincent
Seventh	Guyana

Population	249,400
Households	69,800
Average Number of Persons per Household	4.0

Principal Cities	Total Telephones	Main Telephones	Population (000)
Bridgetown	31,426	19,254	124.4

Total Main Telephones	18,209
Extensions to Main Telephones	11,705
PBX's and Extensions (business)	9,152
Total Residence Telephones	35,894
Total Business Telephones (including Pay and PBX's Telephones)	23,173
Main Residence Telephones	12,009
Main Business Telephones	6,200
Extension Residence Telephones	3,885
Extension Business Telephones	7,820
Coin Box Telephones (capable of originating International Calls)	167
Total Coin Box Telephones	167
Residence Subscriber Lines	12,009
Business Subscriber Lines	7,374
Total Subscriber Lines	19,403
Total Employees	605
Management	99
Technical	301

Bermuda

Capable of International Service to United States	
Main Telephones Capable of ISD To U.S.	19,593
Business Main Telephones Capable of ISD to U.S.	2,833

Virgin Islands

Most Frequently Called Country:

Fourth	Canada
Fifth	Italy
Sixth	Greece
Seventh	United Kingdom

International Service – Dialable Country Codes

Semi-Automatic	
Direct	69
Transit Only	0
Manually	
Direct	105
Transit only	0
Management Employees	135
Technical Employees	310

World Zone 2

Algeria

Conversations:	
Local Pulse Metered	811,062.4
International Pulse Metered	129,670.9

Ethiopia

Total Main Telephones Capable of ISD to United States	50,636
Number of Business Mains	14,260
Number of Residence Mains	36,376
Conversations – International Outgoing – All other	17.0

Most Frequently Called Country:

Sixth	France
Seventh	Greece

Principal Cities	Population (000)
Addis Ababa	1,216,000
Asmara	401,000
Dire Dawa	78,000
Management Employees	51
Technical Employees	1,526

Gabon

Most Frequently Called Country:

Sixth	Belgium
Seventh	United Kingdom

Kenya

EMSS Controlled Telephones	157,275
Total Telephones	182,689
Conversations:	
Local Pulse Metered	424,440.9
All other (manually handled calls)	
Local (continued calls)	6,957.8
Interurban (toned calls)	6,240.6
International Outgoing	
All other (manually handled calls)	563.4
Percent of International Outgoing ISD	4.0

Most Frequently Called Country:

Third	Italy
Fourth	Germany, Fed. Rep.
Fifth	Switzerland
Sixth	France
Seventh	Netherlands

Dialable Country Codes	
ISD	
Direct	n.a.
Transit only	n.a.
Semi-Automatic	
Direct	125
Transit only	62
Manual	
Direct	n.a.
Transit	n.a.
Population	16,000,000
Households	3,000,000
Average Number of Persons per Household	5.0

Principal Cities	Total Telephones	Main Telephones	Population (000)
Eldoret	2,294	953	–
Kisumu	4,931	2,260	150.0
Machakos	838	339	–
Mombasa	24,319	10,317	342.0
Nairobi	100,485	37,976	835.0
Nakuru	6,013	2,449	93.0
Namyuki	1,260	433	–
Nyeri	2,278	880	–
Thika	2,067	896	–

Total Coin Box Telephones	1,104
Total Public Telephone Stations	529

Table 17: (continued)
Reported Data Revisions for January 1, 1980 Edition.
Reported data as of January 1, 1981

Reunion

Total Main Telephones	31,776
Total Extension and PBX Telephones	20,466
Total Telephones	52,242
National Government Operated	52,242 = 100%
Connecting with the United States	52,242
Conversation – Pulse Metered (000's) Local and Interurban	150,100.0

Principal Cities	Total Telephones	Main Telephones
St. Denis (A)	16,818	10,230

Total Public Telephone Stations	39
Total Employees	503

South Africa

EMSS Telephones Equipped for Long Distance Dialing	2,334,778
EMSS Telephones Equipped for ISD	2,313,979
ESS Telephones Equipped for Long Distance Dialing	36,257
ESS Telephones Equipped for ISD Dialing	35,967
Percent of International Outgoing Calls ISD	87.0
Population	23,772,000

Tunisia

Employees – Total	3,565
Management	1,327
Technical	2,238

Zimbabwe (Rhodesia)

Conversations (000):	
Pulse Metered – Local	174,180.0
– Interurban	360,324.0

Principal Cities	Total Telephones	Main Telephones	Population (000)
Que Que (A)	4,138	1,644	52.0
Gatooma (A)	2,588	992	33.0

Total Main Telephones	83,473
Extensions to Main Telephones	16,917
PBX and associated Telephones	114,024
Total Residence Telephones	67,262
Total Business Telephones	147,152
Total Main Residence Telephones	55,927
Total Main Business Telephones	27,546
Total Extension Residence Telephones	11,335
Total Extension Business Telephones	5,582
Total Business PBX Telephones	114,024
Total Coin Box Telephones	849
Total Residence Subscriber Lines	64,100
Total Business Subscriber Lines	31,571
Total Subscriber Lines	95,671

World Zone 3 and 4

Austria

Total Telephones capable of connecting with United States	2,033,351
Conversations: (000)	
Pulse Metered (Local and Interurban)	391,532.0 reported
391,532 tax hours and equal to	19,576,580 pulses
International Pulse Metered	177,556.0

Most Frequently Called Country:

Sixth	Netherlands
Seventh	France

Principal Cities	Main Telephones
Bregenz	13,678
Eisenstadt	4,325
Graz	94,824
Innsbruck	51,492
Klagenfurt	30,989
Linz	82,177
Salzburg	62,390
Wien	739,580

Belgium

Conversations: (000)	
Local Pulse Metered	1,335,787.0
Interurban Pulse Metered	1,484,605.0
International Service – Dialable Country Codes	
ISD – Direct	31
ISD – Transit only	11
Semi-Automatic – Direct	19
Semi-Automatic – Transit only	58
Manual Direct	2
Manual Transit only	53
Total Direct	55
Total Transit only	119
Coin Telephones Capable of Originating International Calls	101
Public Telephones Stations Capable of Originating International Calls	747

Cyprus

Total EMSS Telephones Equipped for Long Distance Dialing	103,768
Total EMSS Telephones Equipped for ISD	130,429
Total ESS Telephones Equipped for Long Distance Dialing	500
Total ESS Telephones Equipped for ISD Dialing	500

Most Frequently Called Country:

Sixth	United States
Seventh	Israel

Principal Cities	Population (000)
Larnaca	32.0
Limassol	110.0
Nicosia	130.0
Paphos	11.0

Number of Management Employees	6
Number of Technical Employees	1,087

Czechoslovakia

Percent of International Outgoing ISD	91.0

Most Frequently Called Country:

Second	Soviet Union
Third	German Dem. Rep.
Fourth	Austria
Fifth	Poland
Sixth	Yugoslavia
Seventh	Hungary

Internatonal Services – Dialable Country Codes	
ISD Direct	18
ISD Transit only	6
Semi-Automatic Direct	–
Semi-Automatic Transit only	14
Manual Direct	3
Manual Transit only	22
Total Direct	21
Total Transit only	42

Denmark

International Service – Dialable Country Codes	
ISD Direct	20
ISD Transit only	5
Semi-Automatic Direct	27
Semi-Automatic Transit only	74

Manual Direct	0
Manual Transit only	57
Total Direct	47
Total Transit only	136

Finland

Conversations (000) – Local all other	1,190,687.0

Most Frequently Called Country:

Sixth	Switzerland
Seventh	France

International Service – Dialable Country Codes

ISD Direct	21
ISD Transit only	5
Total Employees	21,180

France

Conversations:		
Pulse Metered Interurban		53,056,804.0
International All Other	Taxable Minutes	624,746.0

Most Frequently Called Country:

Sixth	Switzerland
Seventh	Algeria

Population	53,589,000*

Germany, Fed. Rep. of

International Service – Dialable Country Codes

ISD Direct	46
ISD Transit only	15
Semi-Automatic Direct	22
Semi-Automatic Transit only	48
Manual Direct	5
Manual Transit only	65
Total Direct	73
Total Transit only	128

German Dem. Rep.

Most Frequently Called Country:

Sixth	Czechoslavakia
Seventh	Austria

Principal Cities	Total Telephones	Main Telephones	Population (000)
Dresden (A)	145,189	48,830	514.0
Gera (A)	26,136		

Total Employees	18,348

Gibraltar

Total PBX Telephones (Gibraltar's Administration does not make a distinction between Residential and Business PBX telephones).	1632
Residence Subscriber Lines	4,592
Business Subscriber Lines	1,688
Total Subscriber Lines	6,280
Management Employees	3
Technical Employees	36

Greece

Conversations:	
Pulse Metered – Local	2,626,055.0*
Pulse Metered – Interurban	445,788*
All Other – Interurban	10,076.0
International – Pulse Metered	15,116.0
International – All other	1,113.0*
Percent of International Outgoing ISD	93.1

Most Frequently Called Country:

Sixth	Cyprus
Seventh	Switzerland

Principal Cities	Population (000)
Athens	2,424.0
Chalkis	43.0
Corfu	35.0
Heraclion	105.0
Hrodos	39.0
Kavala	54.0
Larisa	97.0
Patras	145.0
Piralus	497.0
Thessaloniki	628.0
Volos	114.0
Yiannina	43.0

Main Residence Telephones	1,509,232*
Main Business Telephones	646,814*
Public Telephone Stations Capable of Originating International Calls	14,695
Total Public Telephone Stations	14,695

Guernsey, C.I.

Management Employees	15
Technical Employees	129

Iceland

Most Frequently Called Country:

Sixth	Fed. Rep. of Germany

Total PBX Telephones	578
Total Coin Box Telephones	490
Total Subscriber Lines	84,837

Jersey, C.I.

EMSS Telephones Equipped for Long Distance	38,612
EMSS Telephones Equipped for International Dialing	38,612
ESS Telephones Equipped for Long Distance	11,670
ESS Telephones Equipped for International Dialing	11,670

International Service – Dialable Country Codes

ISD Transit Only	100

Principal City	Population (000)
St. Helier	25.4

Total Employees	282
Management Employees	47
Technical Employees	225

Netherlands

Most Frequently Called Country:

Sixth	Italy
Seventh	United States

Management Employees	n.a.
Technical Employees	14,921

Norway

Most Frequently Called Country:

Sixth	Finland
Seventh	France

Number of Households	1,297,000*
Average Number of Persons per Household	3.2*

Poland

Most Frequently Called Country:

Sixth	German Dem. Rep.
Seventh	Italy

Portugal

Percent of International Outgoing Calls ISD	50.0

Most Frequently Called Country:

Sixth	Netherlands
Seventh	Belgium

Table 17: (continued)
Reported Data Revisions for January 1, 1980 Edition.
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International Service – Dialable Country Codes	
Semi-Automatic – Transit only	10
Manual – Transit only	8
Population	9,832,000
Total Employees	21,427
Management Employees	1,735
Technical Employees	n.a.

Spain

Residence Extension Telephones	2,743,844
Business Extension Telephones	719,544

Sweden

EMSS Telephones Equipped for Long Distance Dialing	6,392,231
EMSS Telephones Equipped for International Dialing	6,392,231
ESS Telephones Equipped for Long Distance Dialing	14,800
ESS Telephones Equipped for International Dialing	14,800
Number of Main Telephones Capable of ISD to the United States	4,336,409
Number of Business Mains	384,970
Conversations:	
Pulse Metered (Local and Interurban)	19,644,615.0
All other – Interurban	5,640.0
International Outgoing – Pulse Metered	36,404.0
– All other	1,243.0

Most Frequently Called Country:

Sixth	France
Seventh	United States

Number of Management Employees	242

United Kingdom

Population	55,883,000
Total Subscriber Lines	16,747,000

Yugoslavia

Population	22,074.0

World Zone 5

Chile

Most Frequently Called Country:

Sixth	Peru
Seventh	Polivia

El Salvador

Manual Telephones	2,381
Total EMSS Controlled Telephones	67,085
Total Telephones	69,466
National Government Operation	69,466
Total Telephones capable of connecting with the United States	57,726
Total Main Telephones capable of ISD to United States	52,167
Total Business Mains	18,117
Total Residence Mains	33,973
Conversations:	
Pulse Metered Interurban	380,780.9
Pulse Metered International	1,207.1
Percent of International Outgoing ISD	31.1

Most Frequently Called Country:

First	United States
Second	Guatemala
Third	Costa Rica
Fourth	Mexico
Fifth	Spain
Sixth	–
Seventh	–

International Service – Dialable Country Codes	
ISD Direct	8
ISD Transit only	28
Semi-Automatic Direct	1
Manual Transit only	138*
Total Direct	9
Total Transit	166
Population	4,658,400
Households	803,200
Average Number of Persons per Household	5.8

Principal Cities	Total Tels.	Main Tels.	Population (000)	Total Tels. Per 100 Pop.	Total Tels. Per 100 Pop.
Ahuachapan (A)	600	583	67.6	0.9	0.9
Chalchuapa (A)	400	377	54.6	0.7	0.7
Cojutepeque (A)	400	375	33.7	1.2	1.1
Gotera (A)	200	184	12.6	1.6	1.5
Ilobasco (A)	200	190	50.1	0.4	0.4
Jiquilisco (A)	200	164	54.0	0.4	0.3
La Union (A)	400	337	46.3	0.9	0.7
Opico (A)	200	173	43.1	0.5	0.4
Santa Ana (A)	4,000	3,831	199.7	2.0	1.9
San Miguel (A)	2,000	1,980	153.0	1.3	1.3
Sta. Rosa de L. (A)	200	181	29.0	0.7	0.6
San Salvador (A)	54,000	46,428	417.1	12.9	11.1
Santa Tecla (A)	3,000	2,933	67.0	4.5	4.4
San Vicente (A)	600	403	60.0	1.0	0.7
Gensuntepeque (A)	200	198	49.7	0.4	0.4
Sonsonate (A)	2,000	1,613	65.2	3.1	2.5
Soyapango (A)	3,000	2,806	54.4	4.7	4.4
Suchitoto (A)	120	98	43.0	0.3	0.2
Usulutan	600	587	61.0	1.0	1.0
Zacatecoluca (A)	600	555	76.5	0.8	0.7

Total Main Telephones	57,726*
Total Residence Main Telephones	39,532*
Total Business Main Telephones	18,194*
Total Residence Subscriber Lines	39,532
Total Business Subscriber Lines	18,194
Total Subscriber Lines	57,726
Total Number of Employees	3,901

Guadeloupe

Total EMSS Controlled Telephones	45,144
EMSS Telephones Equipped for Long Distance Dialing	45,144
EMSS Telephones Equipped for International Dialing	45,144
Total Telephones	45,144
National Government Operation	45,144
Total Telephones Capable of Connecting to United States	45,144
Total Telephones Capable of ISD to United States	30,050
Conversations (000)	
Pulse Metered (Local and Interurban)	262,100.0 (Taxable/Chargeable Base)

Principal Cities	Total Telephones	Main Telephones	Population (000)
Basse Terre	6,201	3,747	–
Pointe A Pitre	21,746	13,264	77.5

Total Public Telephone Stations Capable of Originating International Calls	18
Total Public Telephone Stations	18
Total Employees	540

French Guiana

Total Main Telephones	9,224
Total Telephones	15,877
National Government Operation	15,877
Conversations – Pulse Metered (Local and Interurban)	65,100.0

Principal Cities	Total Total	Main Navb	Population (000)
Cayenne	10,996	6,241	36.0 (1978 Data)
Kourou	2,640	1,156	–

Total Public Telephone Stations	12
Total Employees	208

Martinique

Total EMSS Telephones	57,688
EMSS Telephones equipped for Long Distance Dialing	57,688
EMSS Telephones equipped for International Dialing	57,688
Total National Government Operation	57,688
Total Telephones Capable of Connecting to United States ISD	57,688
Conversations – Pulse Metered (Local and Interurban)	187,000.0

Principal City	Total Telephones	Main Telephones
Fort De France	35,195	20,010

Total Public Telephone Stations	22
Total Employees	564

Mexico

Most Frequently Called Country:

Sixth	Costa Rica
Seventh	France

Population	71,212,000*

Uruguay

Manual Telephones	18,188
EMSS Controlled Telephones	261,234
EMSS Telephones Capable of Long Distance Dialing	261,234
EMSS Telephones Capable of International Dialing	192,618
Total Telephones	279,422
Total Telephones National Government Operation	279,422
Conversations:	
Pulse Metered – Local	476,000.0
– Interurban	132,189.0
All Other – Interurban (Reported as manually handled calls)	13,262.0
International – Pulse Metered	23,318.0
– All other	1,022.0 (Calls)
Percent of International Outgoing Calls ISD	20.7

Most Frequently Called Country:

First	Argentina
Second	Brazil
Third	United States
Fourth	Spain
Fifth	Chile
Sixth	Paraguay
Seventh	Venezuela

Population	2,831,000
Households	804,000
Average Number of Persons per Household	(United Nations Data) 3.5
Area Km^2	186,926

Principal Cities	Total Telephones	Main Telephones	Population (000)
Las Piedras (B)	1,500	1,437	–
Melo (B)	1,400	1,292	–
Maldonado (B)	4,000	3,768	–
Mercedes (B)	2,200	1,983	–
Minas (B)	2,100	1,788	–
Montevideo (D)	173,240	157,573	–
Paysandu (B)	3,700	3,275	–
Pta. del Este (C)	8,800	6,318	–
Salto (B)	4,000	3,477	–
San Jose (B)	1,600	1,462	–

Total Main Telephones	212,484
Total Residence Main Telephones	158,300
Total Business Main Telephones	54,184
Total Coin Box Telephones	1,481
Total Public Telephone Stations	1,824
Residence Subscriber Lines	157,425*
Business Subscriber Lines	47,657*
Total Subscriber Lines	205,082
Total Employees	7,550
Total Management Employees	112

World Zone 6

Brunei

Conversations:	
Pulse Metered Interurban	11,200.0
International Outgoing (Reported as CAMA Paid Minutes)	1,100.0
Management Employees	7
Technical Employees	106

Norfolk Island

Most Frequently Called Country:

Sixth	United States
Seventh	New Caledonia

Households	650
Average Number of Persons per Household	3.6
Management Employees	1
Technical Employees	2

Papua New Guinea

Number of Main Telephones capable of ISD to the United States	0
Conversations – Pulse Metered, Local	52,100.0
Total Employees	1,327

Note: The January 1, 1980 data for total employees (2,741) was for the entire department. This revised figure reflects those employees involved in Telecommunication Services only for 1979.

Phillipines

Most Frequently Called Country:

Sixth	Australia
Seventh	Singapore

International Service – Dialable Country Codes	
Semi-Automatic Direct	2
Semi-Automatic Transit Only	95
Manual Direct	2
Manual Transit Only	65
Total Direct	4
Total Transit Only	160
Population	46,580.4
Households	7,841,818 (Source reported to be NCSO Research note no. 1-B Population Studies Division)
Residence Subscriber Lines in Service	131,961
Business Subscriber lines in service	124,773
Total Subscriber Lines	256,734
Total Employees	7,853
Management Employees	975
Technical Employees	6,878

Singapore

EMSS Telephones Equipped for Long Distance Dialing	551,990
EMSS Telephones Equipped for International Dialing	5,569
ESS Telephones Equipped for Long Distance Dialing	73,140
ESS Telephones Equipped for International Dialing	234

Most Frequently Called Country:

Sixth	United States
Seventh	Australia

Households	495,000
Average Number of Persons per Household	5.0
Management Employees	506
Technical Employees	5,189

Solomon Islands

EMSS Total Telephones	2,211
Population	227.0

Table 17: (continued)
Reported Data Revisions for January 1, 1980 Edition.
Reported data as of January 1, 1981

Principal Cities	Total Telephones	Main Telephones	Population (000)	
Auki (B)	108	79	n.a.	
Gizo (B)	113	99	n.a.	
Honiara (A)	1,990	1,171	18.4	
Total Main Telephones				1,189
Extensions to Main Telephones				380
PBX Telephones (All Business)				642
Total Subscriber Lines				1,349
Total Employees				23
Management Employees				3
Technical Employees				16

Thailand

Management Employees	75
Technical Employees	3,348

World Zone 8

China-Taiwan

Most Frequently Called Country

Sixth	Korea
Seventh	Indonesia

World Zone 9

India

Public Telephone Stations (Long Distance Public Call Offices)	11,732

Kuwait

Principal City	Population (000)	
Kuwait	1,300.0	
Residence Subscriber Lines in Service		94,874

Table 18:
Telephony Development
Percent change from January 1, 1980 reported data

AREA	TOTAL TELEPHONES (%)	TOTAL POPULATION [21] (%)	TELEPHONES PER 100 POPULATION (%)	TELEPHONES BY TYPE OF AUTOMATIC SWITCHING		TOTAL MAIN TELS. (%)	TOTAL BUSINESS TELS. (%)	TOTAL RESIDENCE TELS. (%)
				EMSS [35] (%)	ESS [35] (%)			
World Zone 1								
Anguilla [224]	n.r. [81]	0.0 [778]	n.r. [81]	n.r. [81]	n.r. [81]	n.r. [81]	n.r. [81]	n.r. [81]
Antigua [226]	n.r. [81]	1.0	n.r. [81]	n.r. [81]	n.r. [81]	n.r. [81]	n.r. [81]	n.r. [81]
Bahamas	5.6	-11.8	19.7	5.6	0.0	9.1	3.1	8.6
Barbados	12.9	0.4	12.4	-5.9	88.3	13.6	11.3	13.9
Bermuda	5.3	-5.2 [4]	11.1	6.2*	2.3*	3.9*	5.8	4.9
Canada [884]	4.0	1.8	2.2	0.9*	8.0*	34.9*	8.5	2.1
Cayman Islands [537]	n.r. [81]	n.r. [81]	n.r. [81]	n.r. [81]	n.r. [81]	n.r. [81]	n.r. [81]	n.r. [81]
‡ Dominica	n.r. [81]	n.r. [81]	n.r. [81]	n.r. [81]	n.r. [81]	n.r. [81]	n.r. [81]	n.r. [81]
Dominican Republic	6.3	9.8	-3.2	5.3	13.3	–	–	–
Grenada [14]	n.r. [80]	n.r. [80 15]	n.r. [80]	n.r. [80]	n.r. [80]	n.r. [80]	n.r. [80]	n.r. [80]
Jamaica	1.8	0.0	1.8	1.8	0.0	2.8	3.5	-1.3
Montserrat, West Indies	20.1	-10.8	34.6	20.1	0.0	17.6	n.a. [81]	n.a. [81]
Puerto Rico	-3.1	-11.5	9.5	-3.0	-3.7	-1.8	-1.9	-4.2
St. Kitts-Nevis [224]	n.r. [80/1]	n.r.	n.r. [80]	n.r. [80/1]	n.r. [80/1]	n.r. [80/1]	n.r. [80/1]	n.r. [80/1]
St. Lucia [852]	n.r. [81]	0.0 [853]	n.r. [81]	n.r. [81]	n.r. [81]	n.r. [81]	n.r. [81]	n.r. [81]
St. Pierre and Miquelon	19.8	30.0	-7.8	19.8	0.0	23.0	–	–
St. Vincent [860]	n.r. [81]	0.0 [861]	n.r. [81]	n.r. [81]	n.r. [81]	n.r. [81]	n.r. [81]	n.r. [81]
‡ Trinidad and Tobago [865]	n.r. [80/1]	n.r.	n.r. [80]	n.r. [80/1]	n.r. [80/1]	n.r. [80/1]	n.r. [80/1]	n.r. [80/1]
‡ Turks and Caicos Islands	11.8	-2.6 [809]	14.8	11.8	0.0	14.3	n.a. [80]	n.a. [80]
United States [732]	9.2	3.2 [795]	5.8	-2.7	30.9	3.9	14.6	7.2
Virgin Islands	9.3	0.2	9.1	9.3	0.0	9.5	12.6	7.0
Virgin Islands, British [851]	n.r. [81]	0.0 [849]	n.r. [81]	n.r. [81]	n.r. [81]	n.r. [81]	n.r. [81]	n.r. [81]
World Zone 2								
Algeria	14.9	1.7	13.0	-27.3	0.0	21.3	–	–
Angola [60]	n.r. [80/1]	n.r. [80]	n.r. [80]	n.r. [80/1]	n.r. [80/1]	n.r. [80/1]	n.r. [80/1]	n.r. [80/1]
‡ Ascension Island [74]	n.r. [81]	0.0 [818]	n.r. [81]	n.r. [81]	n.r. [81]	n.r. [81]	n.r. [81]	n.r. [81]
Benin [82]	n.r. [80/1]	n.r. [80]	n.r. [80]	n.r. [80/1]	n.r. [80/1]	n.r. [80/1]	n.r. [80/1]	n.r. [80/1]
Botswana [304]	n.r. [80/1]	n.r. [80]	n.r. [80]	n.r. [80/1]	n.r. [80/1]	n.r. [80/1]	n.r. [80/1]	n.r. [80/1]
Burundi [451]	n.r. [80/1]	n.r. [80]	n.r. [80]	n.r. [80/1]	n.r. [80/1]	n.r. [80/1]	n.r. [80/1]	n.r. [80/1]
Cameroon [412]	n.r. [80/1]	n.r. [80]	n.r. [80]	n.r. [80/1]	n.r. [80/1]	n.r. [80/1]	n.r. [80/1]	n.r. [80/1]
Cape Verde	6.1	-5.7	12.5	6.8	–	7.1	9.3	3.9
Central African Republic [490]	n.r. [80/1]	n.r. [80]	n.r. [80]	n.r. [80/1]	n.r. [80/1]	n.r. [80/1]	n.r. [80/1]	n.r. [80/1]
Chad [639]	n.r. [81]	-11.1	n.r. [81]	n.r. [81]	n.r. [81]	n.r. [81]	n.r. [81]	n.r. [81]
Comoros [659]	n.r. [80/1]	n.r. [80]	n.r. [80]	n.r. [80/1]	n.r. [80/1]	n.r. [80/1]	n.r. [80/1]	n.r. [80/1]
Congo [663]	n.r. [80/1]	n.r. [80]	n.r. [80]	n.r. [80/1]	n.r. [80/1]	n.r. [80/1]	n.r. [80/1]	n.r. [80/1]
Djibouti [671]	n.r. [81]	-28.6	n.r. [81]	n.r. [81]	n.r. [81]	n.r. [81]	–	–
Egypt	n.r. [80]	n.r. [80]	n.r. [80]	n.r. [80/1]	n.r. [80]	n.r. [80]	–	–
Equatorial Guinea	n.r. [80/1]	n.r. [80]	n.r. [80]	n.r. [81]	n.r. [80/1]	n.r. [80/1]	n.r. [80/1]	n.r. [80/1]
Ethiopia	4.8	2.3	2.4	1.0	0.0	–	–	–
Gabon	0.0	0.0	0.0	0.0	0.0	0.0	–	–
Gambia [89]	n.r. [81]	-2.6	n.r. [81]	n.r. [81]	n.r. [81]	n.r. [81]	n.r. [81]	n.r. [81]
Ghana [629]	n.r. [81]	-2.7	n.r. [81]	n.r. [81]	n.r. [81]	n.r. [81]	n.r. [81]	n.r. [81]
Guinea - Bissau [44]	n.r. [80/1]	n.r. [80]	n.r. [80]	n.r. [80/1]	n.r. [80/1]	n.r. [80/1]	n.r. [80/1]	n.r. [80/1]
Guinea, Rep. of [673]	n.r. [80/1]	n.r. [80]	n.r. [80]	n.r. [80/1]	n.r. [80/1]	n.r. [80/1]	n.r. [80/1]	n.r. [80/1]
Ivory Coast [824]	n.r. [81]	0.0	n.r. [81]	n.r. [81]	–	n.r. [81]	n.r. [81]	n.r. [81]
Kenya	8.5	0.0	8.5	8.3	n.a. [81]	20.1	–	–
Lesotho [822]	n.r. [80/1]	n.r. [80]	n.r. [80]	n.r. [80/1]	n.r. [80/1]	n.r. [80/1]	n.r. [80/1]	n.r. [80/1]
Liberia [820]	n.r. [81]	9.9	n.r. [81]	n.r. [81]	n.r. [81]	n.r. [81]	n.r. [81]	n.r. [81]
Libya	n.r. [80/1]	55.4	n.r. [80/1]	n.r. [80/1]	n.r. [80/1]	n.r. [80/1]	n.r. [80/1]	n.r. [80/1]
Malagasy (Madagascar) [222]	n.r. [80/1]	n.r. [80]	n.r. [80]	n.r. [80/1]	n.r. [80/1]	n.r. [80/1]	n.r. [80/1]	n.r. [80/1]
Malawi	-47.4 [42]	-3.8	-45.4 [42]	-48.1 [42]	0.0	-2.1	–	–
Mali [323]	n.r. [80/1]	n.r. [80]	n.r. [80]	n.r. [80/1]	n.r. [80/1]	n.r. [80/1]	n.r. [80/1]	n.r. [80/1]
Mauritania [814]	n.r. [80/1]	n.r. [80]	n.r. [80]	n.r. [80/1]	n.r. [80/1]	n.r. [80/1]	n.r. [80/1]	n.r. [80/1]
Mauritius	4.0	1.5	2.5	0.6	16.9	5.1	-1.5 [90]	11.4 [90]
Morocco [815]	n.r. [81]	0.0 [686]	n.r. [81]	n.r. [81]	–	–	–	–
Mozambique [827]	n.r. [81]	0.0 [690]	n.r. [81]	n.r. [81]	n.r. [81]	n.r. [81]	–	–
Namibia (South West Africa	8.0	0.0 [53]	8.0	9.0	0.0	7.3	194.1 [45]	-36.6 [45]
Niger [840]	n.r. [80/1]	n.r. [80]	n.r. [80]	n.r. [80/1]	n.r. [80/1]	n.r. [80/1]	n.r. [80/1]	n.r. [80/1]
Nigeria [843]	n.r. [81]	18.8	n.r. [81]	n.r. [81]	n.r. [81]	n.r. [81]	n.r. [81]	n.r. [81]
Reunion	15.4	2.9	12.2	15.4	0.0	19.9	–	–
Rwanda [847]	n.r. [80/1]	n.r. [80]	n.r. [80]	n.r. [80/1]	n.r. [80/1]	n.r. [80/1]	n.r. [80/1]	n.r. [80/1]
‡ Saint Helena [71]	n.r. [81]	20.0	n.r. [81]	n.r. [81]	n.r. [81]	n.r. [81]	n.r. [81]	n.r. [81]
Sao Tome and Principe [803]	n.r. [81]	-3.6	n.r. [81]	n.r. [81]	n.r. [81]	n.r. [81]	n.r. [81]	n.r. [81]
Senegal [816]	n.r. [80/1]	n.r. [80]	n.r. [80]	n.r. [80/1]	n.r. [80/1]	n.r. [80/1]	n.r. [80/1]	n.r. [80/1]
Seychelles	19.0	3.4	15.1	19.0	0.0	28.6	n.a. [81]	n.a. [81]
Sierre Leone [879]	n.r. [80/1]	n.r. [80]	n.r. [80]	n.r. [80/1]	n.r. [80/1]	n.r. [80/1]	n.r. [80/1]	n.r. [80/1]
Somalia [704]	n.r. [80/1]	n.r. [80]	n.r. [80]	n.r. [80/1]	n.r. [80/1]	n.r. [80/1]	n.r. [80/1]	n.r. [80/1]
South Africa	10.2	1.6	8.4	11.3	34.3	9.5	9.7	10.7
Bophuthatswana [514]	45.1 [46]	0.0	45.1 [46]	0.0 [46]	-100.0 [46]	77.5 [46]	-6.3 [46]	121.1 [46]
Ciskei [515]	–	–	–	–	–	–	–	–
Transkei [514]	n.r. [81]	25.0	n.r. [81]	n.r. [81]	n.r. [81]	n.r. [81]	n.r. [81]	n.r. [81]
Venda [514]	n.r. [81]	0.0	n.r. [81]	n.r. [81]	n.r. [81]	n.r. [81]	n.r. [81]	n.r. [81]
Sudan	2.6	2.4	0.2	1.6	0.0	1.7	4.3	-1.2
Swaziland	12.8	0.0	12.8	21.4	0.0	22.4	-17.0	130.9 [47]
Tanzania	n.r. [80]	n.r. [80]	n.r. [80]	n.r. [80]	n.r. [80]	–	–	–
Togo	4.8	9.5	-4.3	2.2*	0.0	4.7	–	–
Tunisia	8.6	2.3	6.2	12.2	–	12.4	–	–
Uganda [707]	n.r. [81]	0.0 [717]	n.r. [81]	n.r. [81]	–	n.r. [81]	n.r. [81]	n.r. [81]

Table 18: (continued)
Telephony Development
Percent change from January 1, 1980 reported data

AREA	TOTAL TELEPHONES (%)	TOTAL POPULATION [11] (%)	TELEPHONES PER 100 POPULATION (%)	TELEPHONES BY TYPE OF AUTOMATIC SWITCHING		TOTAL MAIN TELS. (%)	TOTAL BUSINESS TELS. (%)	TOTAL RESIDENCE TELS. (%)
				EMSS [36] (%)	ESS [36] (%)			
World Zone 2 (Continued)								
Upper Volta [881]	n.r. [80/1]	n.r. [80]	n.r. [80]	n.r. [80/1]	n.r. [80/1]	n.r. [80/1]	n.r. [80/1]	n.r. [80/1]
Zaire [882]	n.r. [81]	12.0	n.r. [81]	n.r. [81]	–	–	–	–
Zambia [883]	n.r. [81]	0.0 [727]	n.r. [81]	n.r. [81]	n.r. [81]	n.r. [81]	n.r. [81]	n.r. [81]
Zimbabwe (Rhodesia)	4.7	2.0	2.6	4.9	0.0	3.6	5.2	3.6
World Zone 3 & 4								
Albania [102]	n.r. [81]	0.0	n.r. [81]	n.r. [81]	n.r. [81]	n.r. [81]	n.r. [81]	n.r. [81]
Andorra	29.4 [75]	16.0	11.6	29.4 [75]	0.0	41.5 [75]	–	–
Austria	7.0	1.7 [110]	8.8	7.0	–	7.8	–	–
Belgium	5.5	0.2	5.3	2.2	24.8	6.3	– [550]	– [550]
Bulgaria	10.5	<0.1	10.5	12.2	0.0	13.2	4.4	17.0
Cyprus	8.8	1.5	7.2	8.3	114.0 [98]	11.0	–	–
Czechoslovakia	2.5	<0.1	2.5	2.8	–	2.0	2.9	1.9
Denmark [165]	5.5	1.8	3.6	5.6	3.5	3.3	–	–
Finland	5.8	0.4	5.4	6.0 [174]	6.0 [174]	6.5	–	–
France	11.1	0.4	10.9	3.5	123.0 [105]	13.8	n.a. [81]	n.a. [81]
(5) French Guiana [244]	14.2	12.9	1.2	14.2	0.0	21.7	–	–
(6) French Polynesia [244]	8.6	0.0	8.6	8.6	0.0	13.6	–	–
(5) Guadeloupe [244]	11.2	0.6	10.5	11.2	0.0	14.8	–	–
(5) Martinique [244]	11.2	3.8	15.6	11.2	–	17.2	–	–
(6) New Caledonia [244, 318]	11.5	0.0	11.5	31.3	0.0	21.7	–	–
(2) Reunion [244]	15.4	2.9	12.2	15.4	0.0	19.9	–	–
(1) St. Pierre and Miquelon [244]	19.8	30.0	-7.8	19.8	0.0	23.0	n.r. [80/1]	n.r. [80/1]
(6) Wallis and Futuna Islands [244]	n.r. [80/1]	n.r. [80]	n.r. [80]	n.r. [80/1]	n.r. [80/1]	n.r. [80/1]		
German Dem. Rep.	2.8	<0.1	2.8	2.8	0.0	2.5	–	–
Germany, Fed. Rep. [81]	7.2	0.4	6.8	6.9	0.0	8.4	– [196]	– [196]
Gibraltar	4.5	0.0	4.5	4.5	0.0	4.9	3.8	5.2
Greece	5.0	2.1*	2.8	5.0	–	5.3	–	–
Guernsey Channel Islands	4.9	1.4	6.4	-13.2	140.7 [111]	3.3	n.a. [81]	n.a. [81]
Hungary	6.3	<0.1	6.3	7.5	0.0	10.1	3.2	13.6
Iceland	4.8	1.1	3.6	5.4	0.0	3.8	n.a. [81]	n.a. [81]
Ireland	10.9	1.9	8.9	11.0	0.0	–	– [499]	– [499]
Italy	6.6	0.3	6.3	6.6	0.0	6.9	5.8	7.0
Jersey Channel Islands	4.7	2.3	2.4	1.7	14.7	4.4	n.a. [81]	n.a. [81]
Liechtenstein	5.5	0.0	5.5	5.5	0.0*	5.2*	4.7	6.2
Luxembourg [103]	n.r. [81]	0.0	n.r. [81]	n.r. [81]	n.r. [81]	n.r. [81]	–	–
Malta	7.0	1.4	5.6	3.4	14.3	7.5	–	–
Monaco [162]	n.r. [81]	0.0 [762]	n.r. [81]	n.r. [81]	n.r. [81]	n.r. [81]	–	–
Netherlands	5.5	0.8	4.6	5.5	0.0*	3.1*	n.a. [81]	n.a. [81]
Norway	7.3	0.3	7.0	– [113]	– [113]	7.6	n.a. [81]	n.a. [81]
Poland	4.4	0.9	3.5	4.8	–	5.3	2.6	7.6
Portugal	5.1	1.4*	3.7	6.0	0.0	5.3	n.a. [81]	n.a. [81]
Romania [169]	n.r. [81]	0.0	n.r. [81]	n.r. [81]	n.r. [81]	n.r. [81]	n.r. [81]	n.r. [81]
San Marino	5.3	0.9	4.4	5.3	0.0	–	–	–
Spain	6.6	1.2	5.4	5.9	245.5 [150]	8.0	5.2	7.5
Sweden	3.3	0.2	3.2	3.1	123.0 [157]	1.5	1.5	4.2
Switzerland	3.7	0.8	2.9	3.7	0.0	3.1	3.1	4.7
United Kingdom [125]	4.3	<0.1	4.2	4.3 [486]	4.3 [486]	4.7 [486]	–	–
Yugoslavia	11.5	0.9	10.6	11.7 [182]	–	14.5	9.7	13.1
World Zone 5								
Argentina	4.4	3.6	0.8	2.8	0.0	4.9	4.0	4.7
Belize	n.a. [80]	0.3	n.a. [80]	n.a. [80]	n.a. [80]	n.a. [80]	n.a. [80]	n.a. [80]
Bolivia	n.r. [80]	2.7	n.r. [80]	n.r. [80]	n.r. [80]	n.r. [80]	–	–
Brazil	15.4	5.5	22.1	15.6	0.0	10.2	n.a. [80]	n.a. [80]
Chile	2.9	1.9	1.0	4.3	–	3.3	1.0	4.8
Colombia	6.5	2.8	3.7	7.1	0.0	6.5	4.8	7.3
Costa Rica	21.4	4.2	16.6	21.3	0.0	21.5	13.4	24.4
Cuba [210]	n.r. [80/1]	n.r. [80]	n.r. [80]	n.r. [80/1]	n.r. [80/1]	n.r. [80/1]	n.r. [80/1]	n.r. [80/1]
Ecuador [417]	n.r. [81]	5.9	n.r. [81]	n.r. [81]	n.r. [81]	n.r. [81]	n.r. [81]	n.r. [81]
El Salvador	9.3	3.0	6.1	2.6	–	13.8	–	–
Falkland Islands [140]	n.r. [80/1]	n.r. [80]	n.r. [80]	n.r. [80/1]	n.r. [80/1]	n.r. [80/1]	n.r. [80/1]	n.r. [80/1]
French Guiana	14.2	12.9	1.2	14.2	0.0	21.7	–	–
Guadeloupe	11.2	0.6	10.5	11.2	0.0	14.8	–	–
Guatemala	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Guyana [449]	n.r. [80/1]	n.r. [80]	n.r. [80]	n.r. [80/1]	n.r. [80/1]	n.r. [80/1]	n.r. [80/1]	n.r. [80/1]
Haiti [629]	n.r. [81]	0.0	n.r. [81]	n.r. [81]	n.r. [81]	n.r. [81]	n.r. [81]	n.r. [81]
Honduras	n.r. [81]	0.0	n.r. [81]	n.r. [81]	n.r. [81]	n.r. [81]	n.r. [81]	n.r. [81]
Martinique	11.2	3.8	15.6	11.2	–	17.2	–	–
Mexico	12.1	5.4 [263]	18.5	8.8	153.9 [171]	11.7	10.9	13.0
Netherlands Antilles [553]	n.r. [80/1]	n.r. [80]	n.r. [80]	n.r. [80/1]	n.r. [80/1]	n.r. [80/1]	n.r. [80/1]	n.r. [80/1]
Nicaragua [723]	n.r. [81]	0.0 [738]	n.r. [81]	n.r. [81]	n.r. [81]	n.r. [81]	n.r. [81]	n.r. [81]
Panama	8.8	3.1	5.5	7.3	43.2	15.6	4.0	15.7
Paraguay	n.r. [80]	n.r. [80]	n.r. [80]	n.r. [80]	n.r. [80]	n.r. [80]	n.r. [80]	n.r. [80]
Peru	– [173]	39.0	– [173]	– [173]	0.0	– [173]	– [173]	– [173]
Suriname [745]	n.r. [81]	0.0 [748]	n.r. [81]	n.r. [81]	n.r. [81]	n.r. [81]	–	–
Uruguay	2.8	2.4	0.4	2.9	0.0	3.6	–	–
Venezuela [183]	n.a. [81]	0.0 [749]	n.a. [81]	n.a. [81]	n.a. [81]	n.a. [81]	n.a. [81]	n.a. [81]

AREA	TOTAL TELEPHONES (%)	TOTAL POPULATION [31] (%)	TELEPHONES PER 100 POPULATION (%)	TELEPHONES BY TYPE OF AUTOMATIC SWITCHING		TOTAL MAIN TELS. (%)	TOTAL BUSINESS TELS. (%)	TOTAL RESIDENCE TELS. (%)
				EMSS [36] (%)	ESS [36] (%)			
World Zone 6								
American Samoa	n.r. [80]	n.r. [80]	n.r. [80]	n.r. [80]	n.r. [80]	n.r. [80]	n.r. [80]	n.r. [80]
Australia [813]	3.9	2.6	1.3	5.5	0.0	6.6	n.a. [81]	n.a. [81]
‡ Banaba (Ocean) Island [342]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Brunei	14.4	26.7	9.7	78.5 [204]	2710.2 [204]	17.0	n.a. [81]	n.a. [81]
‡ Cocos (Keeling) Island	31.5 [211]	50.0 [211]	12.4	31.5 [211]	0.0	100.0 [211]	25.4 [211]	38.8 [211]
Cook Islands [526]	n.r. [81]	36.8	n.r. [81]	n.r. [81]	n.r. [81]	n.r. [81]	n.r. [81]	n.r. [81]
Fiji	20.8	0.0	20.8	21.3	0.0	9.5	–	–
French Polynesia	8.6	0.0	8.6	8.6	0.0	13.6	–	–
Guam, Mariana Islands	n.r. [80]	n.r. [80]	n.r. [80]	n.r. [80]	n.r. [80]	n.r. [80]	n.r. [80]	n.r. [80]
Indonesia [536]	n.r. [81]	0.0 [751]	n.r. [81]	n.r. [81]	n.r. [81]	n.r. [81]	n.r. [81]	n.r. [81]
Kiribati (Gilbert Islands) [351]	6.5	0.0	6.5	0.0	0.0	53.1	14.3	162.5
‡ Kiritimati (Christmas Island) [399]	n.r. [80]	n.r. [80]	n.r. [80]	n.r. [80]	n.r. [80]	n.r. [80]	n.r. [80]	n.r. [80]
‡ Kwajalein	0.0	-40.0 [212]	66.7 [202]	0.0	–	0.0	0.0	0.0
Malaysia	n.r. [80]	n.r. [80]	n.r. [80]	n.r. [80]	n.r. [80]	n.r. [80]	n.r. [80]	n.r. [80]
‡ Midway Islands [540]	n.r. [80/1]	n.r. [80]	n.r. [80]	n.r. [80/1]	n.r. [80/1]	n.r. [80/1]	n.r. [80/1]	n.r. [80/1]
Nauru [543]	n.a. [81]	0.0 [481]	n.a. [81]	n.a. [81]	n.a. [81]	n.a. [81]	n.a. [81]	n.a. [81]
New Caledonia [318]	11.5	0.0	11.5	31.3	0.0	21.7	–	–
New Zealand	4.0	0.6	3.4	4.2	–	3.1	99.2	28.8
Niue [559]	n.r. [80]	n.r. [80]	n.r. [80]	n.r. [80]	n.r. [80]	n.r. [80]	n.r. [80]	n.r. [80]
‡ Norfolk Island	40.0 [267]	0.0 [267]	40.0 [267]	39.0 [267]	0.0 [267]	24.2 [267]	32.0 [267]	44.9 [267]
Northern Marianas [188]	n.r. [80]	n.r. [80]	n.r. [80]	n.r. [80]	n.r. [80]	n.r. [80]	n.r. [80]	n.r. [80]
‡ Palau (Micronesia) [493]	– [292]	– [292]	– [292]	– [292]	– [292]	– [292]	– [292]	– [292]
Papua New Guinea	9.0	-3.8 [327]	13.2	9.1	0.0	11.4	n.a. [81]	n.a. [81]
Philippines [502]	3.5	2.9	0.6	0.7 [309]	0.0	3.7	4.5	2.2
‡ Pitcairn Island	-10.7	0.0	-10.7	–	–	-10.7	-30.8	6.7
Singapore	12.3	2.2	10.0	-6.0	150.9 [313]	12.4	11.3	13.1
Solomon Islands	11.9	3.5	8.1	11.9	0.0	0.5	n.a. [81]	n.a. [81]
Thailand	10.0	1.8	8.0	10.2	–	12.0	7.1	15.0
‡ Tokelau Islands [425]	0.0	-20.0 [582]	0.0	0.0	0.0	0.0	0.0	0.0
Tonga	23.8 [319]	0.0 [319]	23.8 [319]	23.8 [319]	0.0 [319]	-4.2 [319]	188.6 [319]	23.6 [319]
Tuvalu [401]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Vanuatu (New Hebrides)	n.r. [80]	n.r. [80]	n.r. [80]	n.r. [80]	n.r. [80]	n.r. [80]	–	–
‡ Wake Island [406]	n.r. [80/1]	n.r. [80 566]	n.r. [80]	n.r. [80/1]	n.r. [80/1]	n.r. [80/1]	n.r. [80/1]	n.r. [80/1]
Wallis and Futuna Islands [562]	n.r. [80/1]	n.r. [80]	n.r. [80]	n.r. [80/1]	n.r. [80/1]	n.r. [80/1]	n.r. [80/1]	n.r. [80/1]
Western Samoa	16.8	-1.2	18.2	16.7	0.0	23.7	16.1	17.5
World Zone 7								
USSR (Soviet Union)	5.5	0.8	4.7	4.3	0.0	5.1	–	–
World Zone 8								
Bangladesh [755]	n.r. [80/1]	n.r. [80]	n.r. [80]	n.r. [80/1]	n.r. [80/1]	n.r. [80/1]	n.r. [80/1]	n.r. [80/1]
China - Mainland [503]	n.r. [80/1]	4.2 [368]	n.r. [80/1]	n.r. [80/1]	n.r. [80/1]	n.r. [80/1]	n.r. [80/1]	n.r. [80/1]
China-Taiwan	23.4 [320]	1.8 [320]	21.2 [320]	22.2 [320]	57.7 [120]	24.9 [320]	13.6 [320]	32.3 [320]
Hong Kong	10.5	2.1	8.3	5.0	30.3	9.1	3.4	14.9
Japan [476]	4.7	0.8	3.9	4.8 [279]	– [380]	3.1	n.a. [81]	n.a. [81]
Kampuchea [387]	n.r. [80/1]	n.r. [80]	n.r. [80]	n.r. [80/1]	n.r. [80/1]	n.r. [80/1]	n.r. [80/1]	n.r. [80/1]
‡ Korea, Dem. Peo. Rep.	n.r. [80/1]	n.r. [80]	n.r. [80]	n.r. [80/1]	n.r. [80/1]	n.r. [80/1]	n.r. [80/1]	n.r. [80/1]
Korea, Rep. Of	16.8	0.3 [397]	16.6	16.4	0.0	18.0	11.4	22.5
Laos [392]	n.r. [80/1]	n.r. [80]	n.r. [80]	n.r. [80/1]	n.r. [80/1]	n.r. [80/1]	n.r. [80/1]	n.r. [80/1]
Macao	1.8	0.4	1.5	1.8	0.0	1.8	– [667]	– [667]
Vietnam [400]	n.r. [80/1]	n.r. [80]	n.r. [80]	n.r. [80/1]	n.r. [80/1]	n.r. [80/1]	n.r. [80/1]	n.r. [80/1]
World Zone 9								
Afghanistan [405]	n.r. [80/1]	n.r. [80]	n.r. [80]	n.r. [80/1]	n.r. [80/1]	n.r. [80/1]	n.r. [80/1]	n.r. [80/1]
Bahrain	20.1	1.5	18.4	20.1 [411]	–	n.a. [81]	n.a. [81]	n.a. [81]
‡ Bhutan [520]	n.r. [80/1]	n.r. [80]	n.r. [80]	n.r. [80/1]	n.r. [80/1]	n.r. [80/1]	n.r. [80/1]	n.r. [80/1]
Burma [878]	n.r. [80/1]	n.r. [80]	n.r. [80]	n.r. [80/1]	n.r. [80/1]	n.r. [80/1]	n.r. [80/1]	n.r. [80/1]
India [439]	6.5	-0.4	6.9	6.0	–	6.7	–	–
Iran	68.1 [322]	15.1 [322]	46.1 [322]	n.a. [80]	n.a. [80]	–	–	–
Iraq [433]	n.r. [80/1]	n.r. [80]	n.r. [80]	n.r. [80/1]	n.r. [80/1]	n.r. [80/1]	n.r. [80/1]	n.r. [80/1]
Israel	13.7	2.7	10.8	13.7	0.0	n.a. [80/1]	–	–
Jordan [454]	n.r. [80/1]	n.r. [80]	n.r. [80]	n.r. [80/1]	n.r. [80/1]	n.r. [80/1]	n.r. [80/1]	n.r. [80/1]
Kuwait	11.9	7.7	3.9	11.6	19.6	13.1	24.3	6.6
Lebanon [450]	n.r. [80/1]	n.r. [80]	n.r. [80]	n.r. [80/1]	n.r. [80/1]	n.r. [80/1]	n.r. [80/1]	n.r. [80/1]
Maldives	27.8	0.0	27.8	99.8	0.0	27.8	16.0	41.0
Mongolia [456]	n.r. [80/1]	n.r. [80]	n.r. [80]	n.r. [80/1]	n.r. [80/1]	n.r. [80/1]	n.r. [80/1]	n.r. [80/1]
Nepal [445]	n.r. [80/1]	n.r. [80]	n.r. [80]	n.r. [80/1]	n.r. [80/1]	n.r. [80/1]	n.r. [80/1]	n.r. [80/1]
Oman [465]	n.r. [80/1]	n.r. [80]	n.r. [80]	n.r. [80/1]	n.r. [80/1]	n.r. [80/1]	n.r. [80/1]	n.r. [80/1]
Pakistan	16.9	-3.1	20.7	13.9	0.0	17.5	–	–
Qatar	33.0	-18.4	62.9	33.0	0.0	n.a. [81]	n.a. [81]	n.a. [81]
Saudi Arabia	57.8 [364]	0.0 [364]	57.8 [364]	-93.8 [364]	274.5 [364]	45.1 [364]	70.9 [364]	53.6 [364]
Sri Lanka	n.r. [80]	n.r. [80]	n.r. [80]	n.r. [80]	n.r. [80]	n.r. [80]	–	–
Syria [477]	n.r. [81]	-11.5	n.r. [81]	n.r. [81]	–	n.r. [81]	n.r. [81]	n.r. [81]
Turkey	8.8	2.0	6.7	9.7	0.0	5.1	9.3	8.2
United Arab Emirates	34.3 [369]	17.0 [369]	14.8 [369]	-80.9 [369]	3850.8 [369]	29.6 [369]	27.4 [369]	45.1 [369]
Yemen (Aden) [617]	n.r. [80/1]	n.r. [80]	n.r. [80]	n.r. [80/1]	n.r. [80/1]	n.r. [80/1]	n.r. [80/1]	n.r. [80/1]
Yemen (Sanaa)	n.r. [80/1]	n.r. [80]	n.r. [80]	n.r. [80/1]	n.r. [80/1]	n.r. [80/1]	n.r. [80/1]	n.r. [80/1]

Notes to the Tables

(Missing numbers represent notes that were consolidated or not required).

1 Source: United Nations; Director, Population Division; Department of International Economic and Social Affairs.

2 Source: Countries of the World and their Leaders Yearbook 1981 as published by Gale Research Company; Detroit, Michigan, U.S.A.

3 Australia – date as at June 30, 1979. (TWT's January 1, 1980 note 558).

4 The apparent discrepancies in the present populations figures over those previously reported, are due to the report of the population census – 1980. (Bermuda).

5 India – date as at March 31, 1980. (TWT's January 1, 1980 note 559).

6 Canada – incomplete data based on statistics supplied by the eight major telephone companies in Canada. There are over 600 Canadian telephone companies. The eight companies account for approximately 90% of the telephones in service, as at January 1, 1980. (TWT's January 1, 1980 note 561).

7 (2) By collect and credit car calls only, (Bermuda).

8 For the United States, the exchange or zone areas are generally larger than the corporate areas of the principal cities they serve.

9 Includes Public Telephone Station Data, (Bermuda).

10 Included in Coin Box Telephone Data, (Bermuda).

11 Operator handled traffic.

12 The World's Telephones, January 1, 1980 edition showed an explanatory note, number 542 in connection with the United States data shown in Table 3. It stated the following.

"The North American Telephone Association reported an estimated 2,980,000 non-telephone company provided business telephone instruments in service at the end of 1979. The United States telephone industry estimates an additional 3,700,000 non-telephone company provided residence telephones in service at the end of 1979. Additionally, AT&T Company reports 373,000 non-company telephones for which switching is provided; principally government installations (business) and "farmers' lines" (residence). The inclusion of these figures brings the United States total telephone count to an estimated 182,558,000 for 82.3 per 100 population."

If we include the additional 7,053,000 United States telephones in the 1980 world total (472,136,789 + 7,053,000 = 479,189,789), a net increase in world telephones during 1980 would be 29.1 million for an unadjusted percent increase of 6.1 during 1981.

The adjusted percent increase would be

13 The Jamaica Embassy reported for the parish that incorporates Manderville the 1977 population estimate was 141,200

14 Grenada Telephone Co. is partly owned by the Government of Grenada (50%) and Continental Telephone Co. U.S.A. (50%).

15 1975 estimate. (Grenada's population.)

16 The definition for the abbreviations n.r.^{80}; and n.r.^{81} and n.r.$^{80/1}$; please refer to General Abbreviations and Symbols.

17 The Jamaica Embassy reported for the parish that incorporates Ocho Rios, the 1977 population estimated was 133,200.

18 Japan – all data reported as at March 31, 1980. (TWT's January 1, 1980 note 564.)

Japan's data included 1,787,756 wire-broadcast telephone exchange telephones, per the Japan National Wired Telephone Association. The wire-broadcast telephone exchanges generally serve small rural areas and are connectible to the public network with limitations, but are not permitted to connect with overseas, 1,633,731 of these telephones are reported to be automatic; 370,085 are provided by municipalities, with 1,417,671 by private companies. All of these wire-broadcast telephones were reported as main telephones. (The Nippon Telegraph & Telephone Public Corporation does not count these telephones in the number of telephones for Japan.) (TWT's January 1, 1980 note 490.)

19 Refers to Dominican Republic and Virgin Islands.

20 Refers to Alaska, Bahamas, Bermudas, Jamaica and Hawaii.

21 Refers to Caribbean Islands, Spain and Venezuela.

22 Refers to Canada, Italy, France, Mexico and Spain.

23 Manual Direct Service Data included with Manual Transit Data.

24 Includes Manual Direct Service Data.

25 Partial data due to note 23.

26 Reported as OVC OGC DDD.

27 Reported as DDD/ISD.

28 Reported as OVC OGC.

29 1980 census. (Bahamas).

30 Reported by Algeria's Ministry of Posts and Telecommunications as additional telephone stations.

31 Significant percent change (either positive or negative) for the reported population data from the January 1, 1980 edition's reported population data may be attributed to:

a. Different sources for the data.
b. Previous estimates being overstated or understated in view of current update.
c. Changes in date of information reported (EOY vs Midyear).
d. Current census information being available.

32 Amsterdam's data includes Diemen, Netherlands.

33 Source: Europa Yearbook – 1981, for Algeria's principal cities' population data.

34 Estimated (TWT's) based on reported Main Telephone Data reported for Algeria.

35 South Africa – data as at March 31, 1980. (TWT's January 1, 1980 note 551.)

36 Significant and unusual percent change (either positive or negative) for the reported EMSS and/or ESS controlled telephones data from the January 1, 1980 editions reported data may be attributed to the fact that the reporting country may have combined EMSS and ESS data into one total and reported it without further breakdown (but, so noted) for EMSS or ESS category. This may have happened for either January 1, 1980 or January 1, 1981, thus, creating an unusual percent change relationship.

37 Demark's data includes Faroe Islands and Greenland. (TWT's January 1, 1980 note 597.)

38 Estimated (TWT's) based on reported number of telephones capable of connecting to United States, and the percent reported to be ISD calls.

39 Source: Demographic Yearbook – 1981. (Egypt.)

40 Estimated (TWT's) based on reported number of subscriber lines. (Egypt.)

41 Reported by Argentina to include private exchanges provided by a third party.

42 Malawi reported 28,777 total telephones, 5,899,000 population and 26,919 EMSS controlled telephones for the January 1, 1980 edition, vs. reporting 15,130 total telephones, 5,669,000 population and 13,938 EMSS controlled telephones for this edition.

43 S'Gravenhage data includes Rijswijk and Voorburg, Netherlands.

44 The 1981 Telephone Engineer and Management Directory, A Harcourt Brace Jovanovich Publication, reported 2580 telephones (2262 dial, 76 common battery, 242 magnetio), 20 central offices, for Guinea Bissau.

45 Namibia reported 9,714 business telephones and 40,538 resident telephones for the January 1, 1980 edition, and reported 28, 566 business telephones and 25,715 resident telephones for this edition.

46 Bophuthatswana reported the following for 1980/1981 editions respectively.

Total telephones	7579/10995
EMSS	0/ 6796
ESS	5306/ 0
Main telephones	2680/ 4758
Business telephones	4523/ 4238
Residence telephones	3056/ 6757

47 Swaziland's Total Residence telephones and Business telephones data estimated by TWT's based on main telephone data.

48 United Kingdom – all data as at March 31, 1980. BPO data includes figures for the Hall Corporation Telephone Company, except where indicated. The telecommunications side of the British Post Office is being separated from the postal side and is now known as "British Telecom – part of the post office." When the Parliament bill allowing the split is enacted, the words "part of the post office" will be dropped and the name will be British Telecom. References throughout to the BPO will therefore be out-of-date. (TWT's January 1, 1980 note 565.)

49 Estimated data for calls.

50 Reported as calls.

51 Overseas only.

52 Overseas and certain African countries.

53 Estimated figures according to 1975 census. (Namibia.)

54 Puerto Rico's data incomplete as it did not contain information for the Puerto Rico Communications Authority. Based on previously reported data from PRCA, TWT's publicaton staff estimated an additional 65,347 total telephones for PRCA. This estimated data appears only in Table 2, Part 2.

55 Satelite exchanges included. (Namibia.)

56 United States adjusted data.

The North American Telephone Association reported an estimated 2,980,000 non-telephone company provided business telephone instruments in service at the end of 1979. The United States telephone industry estimates an additional 3,700,000 non-telephone company provided residence telephones in service at the end of 1979. Additionally, AT&T Company reports 373,000 non-company telephones for which switching is provided; principally government installations (business) and "farmers' lines" (residence). The inclusion of these figures brings the United States total telephone count to an estimated 192,558,000 or 82.3 per 100 population. (TWT's January 1, 1980 note 542).

57 Many people left Windhoek for the Republic of South Africa, resulting in a lower population.

Figures compared on the January 1, 1980 edition. (Namibia)

58 Reported as PBX and PABX extensions only. (Namibia)

59 To certain African countries, (Namibia).

60 For the latest reported data on telephony in Angola, please refer to "The World's Telephones – January 1, 1979" edition.

61 For the latest reported data on telephones in Angola's principal cities, please refer to "The World's Telephones – January 1, 1979" edition; Table 12, page 46.

62 Reported as manually handled untimed calls.

63 Reported as manually handled timed calls.

64 Please refer to note 63.

65 Please refer to note 63.

Notes to the Tables (continued 66–148)

Missing numbers represent notes that were consolidated or not required

66 The figures for population correspond to the population of the respective administrative districts in which the principal cities are situated. (Kenya)

67 Malaysia was unable to supply data for January 1, 1980 TWT's edition. Data reported in Table 2, Part 2 is estimated data resulting from calculations by TWT's publications staff using previously reported data for Malaysia.

68 Estimated (TWT's) based on estimated number of main telephones reported by Kenya.

69 Uncounted volume.

70 Malaysia's data for January 1, 1971 TWT's editions was incomplete. Data reported in Table 2, Part 2 for January 1, 1971 is partly estimated as a result of calculations by TWT's publications staff using previously and subsequent data reported by Malaysia.

71 Please refer to "The World's Telephones – January 1, 1980" edition for the latest data reported from St. Helena.

72 Egypt was unable to supply data for January 1, 1980 TWT's edition. Data reported in Table 2, Part 2 is estimated data resulting from calculations by TWT's publications staff using previously reported data for Egypt.

73 Bulgaria's January 1, 1980 data was reported during the survey for the January 1, 1981 edition.

74 For the latest reported data on telephony development for Ascension Island, please refer to "The World's Telephones – January 1, 1980" issue.

75 Andorra reported 12,198 total telephones, 31,300 population, 12,178 EMSS telephones, 6,306 main telephones for January 1, 1980 edition and reported 15,785 total total telephones, 36,300 population, 15,785 EMSS telephones, 8,922 main telephones for this edition.

76 Inland and other African countries.

77 Data included in local pulse metered figure.

78 Includes calls to Bophuthatswana, South-West Africa, Transkei and Venda.

79 For the latest reported data for telephones in Georgetown, Ascension Island; please refer to "The World's Telephones – January 1, 1980" edition, Table 13, page 53.

80 Overseas and to African countries excluding Bophuthatswana, South-West Africa, Transkei and Venda.

81 Fed. Rep. of Germany's data reported to be as at December 31, 1981.

82 The ITU's Yearbook of Common Carrier Telecommunications Yearbook, 9th Edition (1971-1980) reported the following for Benin. Total main lines 7,800; toll traffic 548,000; international traffic 812,000; total traffic 1,360,000 for EOY 1979.

83 As reference, Iran reported for the January 1, 1978 edition of TWT's, total telephones of 728,571; therefore, 1978-1981 percent increase would be 48.1.

84 New Zealand's data for January 1, 1971 TWT's was as at March 31, 1971.

85 Johannesburg's data includes Witatersrand area. (South Africa.)

86 P.B.X. and P.A.B.X. lines and extensions. (South Africa.)

87 To certain countries in Africa only, (South Africa).

88 Reported to include local pulse metered data.

89 The latest reported data on telephony in Gambia may be found in "The World's Telephones – January 1, 1980" edition." Principal cities' data are on page 54.

90 Australia's data for January 1, 1981 TWT's was as at June 30, 1970.

91 Reported as automatic TB (base changes) chargeable minutes, (Tunisia).

92 Reported as manual MT (manual traffic chargeable minutes), (Tunisia).

93 Reported as number of calls made, (approximate data), (Andorra).

94 Reported breakdown: calls with Spain 2,125,000, calls with France 567,000 (Andorra).

95 These calls are made through the transit facilities at the Paris and Madrid International Exchange, (Andorra).

96 Reported as countries by Andorra.

97 Reported as countries connected via the Madrid International Exchange and Paris International Exchange. (Andorra).

98 Cyprus reported 500 ESS controlled telephones for TWT's January 1, 1980 edition and 1070 ESS controlled telephones this edition.

99 Based on reported data received November 30, 1981. (Andorra).

100 Please refer to note 99.

101 Estimated (TWT's) based on reported number of total main telephones reported by Andorra.

102 Telephone Engineer and Management Directory, 1981-1982; a Harcourt Brace Jovanovich publication reported that a government-owned system serves approximately 4,813 telephones; 50 percent dial for Albania.

103 For the latest reported data for Luxembourg's telephony development, please refer to "The World's Telephones – January 1, 1980" edition.

104 Europa Yearbook, 1981-1982 edition. (Albania.)

105 France reported 1,421,311 ESS controlled telephones for TWT's edition of January 1, 1980 and 3,169,723 ESS controlled telephones for this edition.

106 Pulses; including local, interurban and international. Calls (1 pulse = 72 seconds) in local traffic, (Austria).

107 Numbers of calls set up by operator, (Austria).

108 Minutes, reported by Austria.

109 The cities shown are those with the highest reported number of telephones per 100 population. Frequently, they are the country's capital city.

110 Census as of 1981 for Austria.

111 Guernsey, C.I. reported 4,150 ESS controlled telephones for TWT's January 1, 1980 edition and 9,990 ESS controlled telephones for this edition.

112 Estimated (TWT's based on reported number of total main telephones reported by Austria.

113 No valid comparison available for Norway's EMSS and ESS controlled telephones since the reported data for this edition was consolidated without a breakdown for these categories.

114 St. George's Grenada; population 1979 estimate. Source: "The Stateman's Yearbook 1980-1981."

115 Estimated (TWT's) based on reported number of main telephones reported by Bulgaria.

116 Reported as at January 12, 1982 by State of Jersey Telecommunications Board.

117 Reported to include PBX exchange lines. (Jersey, C.I.)

118 Includes the local and interurban subscriber automatic trunk dialing. (Cyprus.)

119 3-minutes interurban calls, reported by Cyprus.

120 Metered pulses for semi-automatic calls reported by Cyprus.

121 These towns are still under Turkish Army occupation. (Cyprus.)

122 Estimated (TWT's), based on reported data from Denmark.

123 Denmark-43069 KM2; Greenland-2175600 KM2. Source: Countries of the World and Their Leaders Yearbook 1981 as published by Gale Research Company; Detroit, Michigan, U.S.A.

124 Singapore's data for January 1, 1971 was reported to exclude figures concerning the telephone systems of the armed forces.

125 South Africa's data for January 1, 1971 was as at March 31, 1971.

126 Remaining countries all over the world. (Greece.)

127 United Kingdom's data for January 1, 1971 TWT's was as at March 31, 1971.

128 Estimated, data of the census of 1971. (Greece.)

129 Australia's ratio of telephones per 100 population calculated based on population data as at June, 1978. (TWT's January 1, 1980 edition, note 406.)

130 Report as total of telecommunications staff, also 2000 more workers in addition to the regular staff of 30,236 are employed annually to assist in the completion of technical tasks. (Greece.)

131 Estimated (TWT's) based on reported data from San Marino.

132 See Italy. (San Marino.)

133 The total number of telephone stations at the end of the year stood at 9,388, an increase of 406 on the previous year's total, (Gibraltar).

134 The international traffic in terms of call duration increased from 1,650,306 minutes in 1979 to 1,909,928 minutes in 1980 an increase of 15.7%, (Gibraltar).

135 Investigations into the introduction of international direct dialing facilities from Gibraltar to most countries of the world were finally concluded and a contract with the General Electric Company Limited (GEC) of the United Kingdom was signed in September. Delivery and installation will commence in May 1981 and it is expected that commissioning of the new facilities will be possible by December 1982. (Gibraltar.)

136 The second year of the cable replacement programme continued and a further 5 old lead type cables were replaced, improving the cable distribution network. (Gibraltar.)

137 Total exchange capacity was 8,000 lines.
Total demand on January 12, 1981 was 6,784 lines.
Shortfall in exchange capacity of 1213 lines. (Gibraltar.)

138 The contract for the new IDD facilities (Please see note 135) also provides for a 5,000 line extension to the crossbar exchange and the replacement of all Strowger Exchange Equipment. The total capacity of the exchange will then increase to 10,000 exchange lines. (Gibraltar.)

139 The department connected stored programme controlled PABXs and initiated a programme of replacement of old PBX's by new electronic type PMBX's.

140 The year also saw the introduction of subscriber carrier systems and electronic type coin boxes from which international calls via the operator can be effected, (Gibraltar).

141 During the year 420 new exchange lines were connected an increase of 139 over the previous year. There were 115 disconnections resulting in a net/increase in exchange lines of 305. Rate of increase 4.85% in 1980.
The total number of exchange lines at the end of the year stood at 6,585. There were 450 applicants on the waiting list. The total demand was therefore 7,035, a rate of increase of 3.78%, (Gibraltar).

142 Canada's ratio of telephones per 100 population calculated using the most recent census, 1976. (TWT's January 1, 1980 edition, note 443.)

143 See Switzerland (Liechtenstein).

144 Estimated (TWT's) based on reported number of main telphones reported by Liechtenstein.

145 Estimated (TWT's) based on reported data and information for Hungary.

146 Reported as 1980 census data. (Hungary.)

147 Estimated by TWT's based on reported number of main telephones reported by Hungary.

148 Reported to include postal and telecommunications employees. (Hungary.)

Notes to the Tables (continued 149–226)

Missing numbers represent notes that were consolidated or not required

149 Estimated TWT's based on information reported by Iceland.

150 Spain reported 60,916 ESS controlled telephones for the January 1, 1980 edition and 210,461 ESS controlled telephones for this edition.

151 Estimated (TWT's) based on the total number of subscriber lines reported. (Iceland.)

152 Total number of employees of the post – and telecommunications organization was 2,143 at January 1, 1981. (Iceland.)

153 Reported by Telemalta Corporation as "Para Statal Corporation".

154 Fairfield, California – Fairfield/Suisun exchange.

155 Reported as metered minutes, (Malta).

156 World wide through Italy. (Malta.)

157 Sweden reported 14,800 ESS controlled telephones for the January 1, 1980 edition and 33,000 ESS controlled telephones for this edition.

158 Malta 245,729 Km^2, Gozo 67,028 Km^2, Comino 2,784 Km^2.

159 Denmark's data for January 1, 1980 includes Faroe Islands and Greenland. (TWT's January 1, 1980 edition; note 597).

160 Includes PBX telephones data (Malta).

161 Data included in extensions to main telephone figure. (Malta.)

162 Fed. Rep. of Germany's ratio of telephones per 100 population based on calculations using population data as at April of the respective years. (TWT's January 1, 1980 edition; note 68.)

163 India's ratio of telephones per 100 population based on calculations using census data as at April 1, 1980. (TWT's January 1, 1980 edition; note 423.)

164 Over 50,000 telephone stations. (Italy)

165 Denmark's data includes the Faroe Islands and Greenland.

166 Includes the local calls.

167 San Marino has a population density of 833 per square mile (322 per sq. km.) – about 20 percent greater than that of Italy. Source: Countries of the World and Their Leaders Yearbook, 1981; Gale Research Company; Detroit, Michigan.

168 Includes the public pay telephones. (Portugal).

169 Telephone Engineer and Management Directory, 1981 – 11982/ a Harcourt Brace Jovanovich Publication/ reports Romania's system serves 2,027,000 telephones; 87 percent dial.

170 Source: Countries of the World and Their Leaders Yearbook 1981 as published by Gale Research Company; Detroit, Michigan, U.S.A.

171 Mexico reported 104,80 ESS controlled telephones for the January 1, 1980 edition and 262,37 ESS controlled telephones for this edition.

172 City of San Marino; capital of the Republic of San Marino. Serraville is the only other town in the Republic.

173 Valid comparison for Peru is not possible as the January 1980 edition report partial data.

174 Estimated (TWT's) based on 1979 data reported by Finland.

175 Actual data was reported as 113,900, (Finland).

176 Data estimated.

177 Estimated (TWT's) based on reported number of main telephones by Finland.

178 Includes interurban metered pulses.

179 Conversations (in thousands).

180 For a better understanding of the United States data, please refer to notes 56, 783 and 795.

181 Reported data represents telephone operators and supervisors. (Sweden).

182 Estimated (TWT's). (Yugoslavia)

183 For the latest reported data on telephony development in Venezuela, please refer to "The World's Telephones – January 1, 1980" edition.

184 Includes data for EMSS telephones. (Norway)

185 Includes interurban metered pulse units.

186 Represents number of calls, (Norway).

187 Represents number of chargeable minutes, (Norway).

188 Northern Marianas – On August 17, 1981, Hawaiian Telephone Company acquired majority interest in the Micronesian Telecommunications Corporation which serves Saipan, Tinan and Rota in the Northern Mariana Islands.

The Commonwealth of the Northern Mariana Islands comprises 16 islands (all the Marianas except Guam) in the Western Pacific. Six islands, including the three largest, Saipan, Tinian and Rota, are inhabited; the chief settlement and administrative center are on saipan.

Formerly part of the Trust Territory of the Pacific Islands, the islands voted for separate status as a U.S. Commonwealth Territory in June 1975, and in March 1976 President Ford signed the Northern Marianas Commonwealth Covenant. In October 1977 President Carter approved the constitution of the Northern Nariana Islands, which provides that from January 1978 the former Marianas District is internally self-governing. In December 1977 elections were held for a bicameral legislature, a governor and a lieutenant-governor. The residents of the islands are not expected to obtain full U.S. Citizenship until 1981, or when negotiations to decide the future status of the Trust Terriroty of the Pacific Islands are completed and the trusteeship is ended.

Legislative authority is vested in the Northern Marianas Commonwealth Legislature, a bicameral body consisting of a Senate and a House of Representatives. There are nine senators elected for four year terms and fourteen members of the House elected for two year periods.

189 Estimated (TWT's) based on reported information from Spain.

190 Estimated (TWT's) based on reported number of main telephones reported by Switzerland.

191 The number of "Calls" is recorded instead of the "Number of Pulses". (Germany, Fed. Rep.)

192 Figures of April 1980. (Germany, Fed. Rep. of)

193 Including public telephones. (Germany, Fed. Rep.)

194 Data reported for all local network areas of this administration with more than 200,000 inhabitants, as of 1/1/81 and includes public telephones. (Germany, Fed. Rep.)

195 Includes private branch exchange telephones. The Deutsche Bundespost of the Federal Republic of Germany advises they are unable to subdivide the statistical data for extension telephones to main telephones and private branch exchange telephones. This is due to definitions used by this administration, which differ from those of this publication. Therefore, this number contains the number of extensions with authorized access to exchange lines; these are extension stations which are connected to Post-own, Subscriber own or private PBXs and which are able to set up calls to the public network, i.e. to main stations and other extensions with access to exchange lines, second telephone sets for main stations, extension stations and PBX telephones, however, are not included. (Fed. Rep. of Germany)

196 Figures broken down into business and residential stations cannot be provided. (Fed. Rep. of Germany)

197 Employees in the telephone areas, part-time staff – converted into full-time staff – included. (Fed. Rep. of Germany)

198 Within private exchanges provided by third persons.

199 Includes the long-distance pulses.

200 Estimated (TWT's). (Argentina)

201 Includes the long-distance pulses.

202 Outgoing calls completed via operator, not including calls with long-distance dialing.

203 Outgoing calls completed via satellite and neighboring countries.

204 Brunei reported 15,150 EMSS controlled telephones and 522 ESS controlled telephones for the January 1980, edition, and reported 3,261 EMSS controlled telephones and 14,669 ESS controlled telephones for this edition.

205 Europa Yearbook 1981. (Argentina)

206 Includes the federal capital and 19 districts of Greater Buenos Aires, Argentina.

207 Encyclopedia Americana (1960 census figures). (Mercedes, Posadas, San Nicolas; Argentina)

208 Demographic Yearbook 1981-1982 (1970 census figures). (S. Del Estero, Argentina)

209 Includes attended public telephones, public telephone booths with rotary dials (R.D.) and coin collectors, (Argentina).

210 1981 Telephone Engineer and Management Directory/a Harcourt Brace Jovanovich Publication/reported 296,048 telephones (273,689 dial, 4,445 common battery, 17,914 magneto) 244 central offices (108 dial, 16 common battery, 120 magneto) for Cuba.

211 Cocos Island reported 108 total telephones, 108 EMSS controlled telephones and 108 main telephones for the January 1980 edition. For this edition, Cocos reported 140 total telephones, 142 EMSS telephones and no data for main telephones. Resident telephones were 49 and 68; business telephones were 59 and 74 for the respective years.

212 Kwajalein reported 5,000 population for the January 1980 edition and 3,000 population for this edition. The reported total number of telephones was unchanged, therefore statistically creating a unique increase in the ratio of telephones per 100 population.

213 1978 estimate – Europe Yearbook. (Cuba)

214 Haarlem's data includes Bloemendaal and Heemskerk, Netherlands.

215 BTA reported this data to represent calls.

216 Reported by Colombia's Ministry of Communications as: semiautomatic 274,580, automatic 1,097,700.

217 With major government capital investment. (Chile)

218 Chilean Antarctic continent not included.

219 Reported as toll ticketing by I.C.E., Costa Rica.

220 Includes: Coronado, Escazu, Norte, Oeste, San Antonio, San Jose, San Pedro, Santa Ana, Sur, Tres Rios; Costa Rica.

221 Includes Gerente, Jefes De Direccion Y Departamentos. (Costa Rica)

222 Madagascar and Malagasy are two names frequently used interchangeably, and since 1960 (when Madagascar received its independence) both names have been officially correct. Malagasy Republic is considered the long form name and a more precise political designation. Madagascar remains the officially accepted short form. The Malagasy Republic consists of the following Madagascar Islands: Nosybe, Nosy Mitsio, Iles Radama, Ibs Baron, Iles Sainte Marie, Iles Chesterfield and Nosy Lava. (Source: The Area Handbook for the Malagasy Republic.)

223 Estimated (TWT's) based on number of telephones reported to have I.S.D. capability to the United States.

224 State of Saint Christopher-Nevis-Anguilla. Note: Anguilla was an integral part of the Associated State of Saint Christopher-Nevis-Anguilla until 1967 when the relationship was severed. Constitutionally, Anguilla remains a part of the Associated State, even though the United Kingdom governs directly Anguillan affairs. (Source: Countries of the World and Their Leaders Yearbook 1981 as published by Gale Research Company; Detroit, Michigan, U.S.A.)

225 Reported as January 1, 1980 data. (El Salvador)

226 Please refer to "The World's Telephones – January 1, 1980" edition for the latest data from Antigua.

Notes to the Tables (continued 227–268)

Missing numbers represent notes that were consolidated or not required

227 Reported as minutes.

228 With accelerated international relations and tourism, Maldives telecommunications demand is rising for both international and national communications. Maldives telecommunications authority expects to significantly upgrade and expand telecommunications in the next ten year period, with special attention to rural telecommunications. The expected total number of telephones connected to Male' exchange by 1991 is 10,000. It is proposed to use digital electronic switching for new exchange. (Guatemala)

229 Includes extensions to main telephones. (Guatemala)

230 Reported as being served by 368 "Centrales". (Guatemala)

231 Reported as commercial users. (Guatemala)

232 The United States telephone industry, as of end of year 1980, was comprised of the American Telephone and Telegraph Company and its 25 subsidiaries and 1483 Independent Telephone Companies (non-Bell) including Alaska and Hawaii. The Alaskan Telephone Association (ATA) reported that there were 24 connecting companies in Alaska with one long lines carrier; ALASCOM, Inc. ATA further reports that 53% of the total telephone stations are served by the Anchorage Telephone Utility, while Fairbanks provides the second largest service, to 7% of Alaska's residents.

The United States Independent Telephone Association (USITA), is comprised of 1054 members from the 1483 independent (non-Bell System) telephone companies. The 1483 independent telephone companies are reported to serve 34,665,000 telephones. Twelve (12) holding companies control 260 of the 1483 independent telephone companies, and operate 79% of the total independent (non-Bell System) telephones.

The United States Department of Commerce, Office of Telecommunications report entitled "Telephone Density and Telephone Company Area Data – 73/18" dated August 1973 (latest available) showed that 45% of the conterminous United States is served by the independent (non-Bell System) telephone companies. The Bell System was reported to serve 42%, leaving 13% as uncertificated territory for public telephone service.

The following may be of interest.

Independent Telephone Company Statistics

Number of Telephones, United States (000 omitted)			Number of Independent Telephone Companies			Number of Independent Telephone Exchanges			Employes		
	Year-End Total	Increase		Year-End Total	Decrease		Year-End Total	Increase		Year-End Total	Increase
1976	28,209	–	1976	1,590	–	1976	11,040	–	1976	160,000	–
1977	29,675	1,466	1977	1,556	34	1977	11,045	5	1977	167,000	7,000
1978	31,549	1,874	1978	1,527	29	1978	11,053	8	1978	179,000	12,000
1979	33,226	1,677	1979	1,488	39	1979	11,050	(3*)	1979	190,000	11,000
1980	34,665	1,439*	1980	1,483	5	1980	11,040	(10)	1980	194,000	4,000
1981	36,084*	1,419*	1981	1,460*	23*	1981	11,035*	(5*)	1981	197,000*	3,000*
5-year Growth 7,875=28% of year-end '76			5-year Decrease 130=8% of year-end '76			5-year Decrease –5 of year-end '76			5-year Growth 37,000=23% of year-end '76		
1982	37,844*	1,760*	1982	1,435*	25*	1982	11,025*	(10)*	1982	202,000*	5,000*

*Estimated
Source: USITA

The relative cost of residential telephone service in the United States, expressed in terms of hours worked to pay for a month's local service, continued its decline in 1980 and is now at an all-time low, according to an AT&T economic study.

The study shows that the working time needed to pay for a month's basic local service has declined steadily, from nearly six hours in 1940 to just over 1¼ hours in 1981.

And this downward trend, the study notes, has continued even in the recent period of strong inflation.

The study compares the monthly charge for individual residence telephone service with 100 local calls, which cost $6.04 in 1971 and $9.16 in 1981. In 1971, the average manufacturing worker had to work an hour and 48 minutes to pay for phone service. Today, the time worked to pay for the same service is one hour and 16 minutes.

In 1940, the charge for such service was $3.67 and the hours of work required to pay for it were five hours and 50 minutes.

(Source: AT&T Comptrollers Department, Economic Analysis Section, N.J.)

233 During the year 1980, progress continued on the various projects for extending the telephone lines, which enabled us (Intel-Panama) to handle a demand equivalent to about ten (10) thousand new subscribers.

We (Intel-Panama) installed and put into operation the first subscriber telephone exchange in electronic technology, with an initial capacity of 3,000 lines. During this period, studies were performed for the acquisition of new urban electronic exchanges and the increase of subscriber lines to the exchanges already in existence; in addition, we added and put into service new telephone exchanges (step by step), through the reallocation of lines.

234 With reference to our (Intel-Panama) international activities, the international dialing system (M.A.D.I.) was established with almost all the countries in the world.

235 With reference to our (Intel-Panama) international activities, the international dialing system (M.A.D.I.) was established with almost all the countries in the world.

236 During the year 1980, progress continued on the various projects for extending the telephone lines, which enabled us to handle a demand equivalent to about ten (10) thousand new subscribers. At the same time, with reference also to our international activities, the international dialing system (M.A.D.I.) was established with almost all the countries in the world. Among the goals achieved, we might mention, we installed and put into operation the first subscriber telephone exchange in electronic technology, with an initial capacity of 3,000 lines. During this period, studies were performed for the acquisition of new urban electronic exchanges and the increase of subscriber lines to the exchanges already in existence; in addition, we added and put into service new telephone exchanges (step by step), through the reallocation of lines. Upon the completion of this project, the institution will be in a position to supplement the services now offered and will have achieved a good level of telecommunications technology. (Panama)

237 Estimated – ENTEL reported 100 percent (117,020) of their served telephones connectable to the United States, as did CPTSA of Lima, Peru.

238 ENTEL supplied data. (Peru)

239 ENTEL supplied data. (Peru)

240 Source: Europa Yearbook – 1981. (Peru)

241 Source: Encyclopedia Americana (1960 Census Figures). (Peru)

242 Includes extension telephones to main telephones, of this figure ENTEL reported 76,924 main telephones, and CPTSA of Lima 215,087 telephones. (Peru)

243 Antelco. (Paraguay)

244 In response to a request from the French Postal and Telecommunications Administration, Telecommunications Department, Commercial Affairs Office; French Overseas Departments and Territories have been listed directly after France. Their data is not included in the totals for World Zone 3 and 4. The small number in parenthesis to the left of the area's name represents the World Zone where it is geographically located and where a duplicate entry may be found, thus maintaining the respective World Zone data integrity.

245 Data included in local metered pulses.

246 Reported as manual system.

247 Fremont, Calif. – Fremont/Newark exchange.

248 Paraguay's system for outgoing international calls is semi-automatic.

249 Estimated figures as at 6/30/80. (Paraguay)

250 Reported as estimated figures. (Paraguay)

251 Of this figure 4,729,340 telephones were reported to be served byTelephonos E Mexico; or 99.5 percent; and 24,802 served by Telefonica Nacional, S.A. or 0.5 percent.

252 Of this figure, 114,184 telephones were reported to be served by Telephonos E Mexico; or 42.7 percent; and 2,340 served by Telefonica Nacional, S.A. or 0.9 percent.

253 Of this figure, 4,903,073 telephones were reported to be served by Telephonos E Mexico; or 96.5 percent; and 28,756 served by Telefonica Nacional, S.A. or 0.6 percent.

254 Of this figure, 4,995,416 telephones were reported to be served by Telephonos E Mexico; or 99.4 percent; and 28,756 served by Telefonica Nacional, S.A. or 0.6 percent.

255 Of this figure 2,510,312 telephones were reported to be served byTelephonos E Mexico; or 96.5 percent; and 28,756 served by Telefonica National, S.A. or 1.1 percent.

256 Of this figure, 692,025 business telephones were reported to be served by Telephonos E Mexico; or 95.5 percent; and 6,223 served by Telefonica Nacional, S.A. or 0.9 percent.

257 Of this figure, 1,818,287 resident telephones were reported to be served by Telephonos E Mexico; or 97.0 percent; and 17,148 served by Telefonica Nacional, S.A. or 0.9 percent.

258 Of this figure, 106,774,900 calls were reported to be served by Telephonos E Mexico, or 99.3 percent.

259 Of this figure, 4,023,930 calls were reported to be served by Telephonos E Mexico, or 96.5 percent.

260 Of this figure, 236,640 calls were reported to be served by telephonos E Mexico, or 90.6 percent.

261 Reported as number of circuits; equipped for ISD Direct – 2,718, Manual Direct – 12, Total Direct 2730 Circuits. (Mexico)

262 Data included in "ISD" direct. (Mexico)

263 Preliminary census for 1980. (Mexico)

264 Includes, Echegaray, Naucalpan, Netzahualcoyotl, Sta. Clara, Satelite, Tecamachalco, Tlalnepantla, Vergel V Viveros, Mexico.

265 Of this figure, 2,510,312 main telephones were reported to be served by Telephonos E Mexico, or 94.3 percent; and 23,081 reported to be served by Telefonica Nacional, S.A. or 0.9 percent.

266 Of this figure, 1,629,957 extension telephones to main telephones were reported to be served by Telephonos E Mexico, or 98.0 percent; and 3,762 reported by Telefonica Nacional, S.A. or 0.2 percent.

267 Norfolk Island reported 590 total telephones, 1,800 population, 590 EMSS telephones, 0 ESS telephones, 446 main telephones, 225 business telephones and 365 resident telephones for the January 1980 edition. For this edition, 826 total telephones, 1,800 population, 820 EMSS telephones, 6 ESS telephones, 554 main telephones, 297 business telephones and 529 residence telephones.

268 Of this figure, 2,954,111 residence telephones were reported to be served by Telephonos E Mexico, or 95.9 percent; and 18,700 reported to be served by Telefonica Nacional, S.A. or 0.6 percent.

Notes to the Tables (continued 269–343)

Missing numbers represent notes that were consolidated or not required

269 Of this figure, 1,948,962 business telephones were reported to be served by Telephonos E Mexico, or 97.2 percent; and 10,056 reported to be served by Telefonica Nacional, S.A. or 0.5 percent.

270 Of this figure, 1,818,287 main residence telephones were reported to be served by Telephonos E Mexico, or 93.9 percent; and 17,148 to be served by Telefonica Nacional, S.A. or 0.9 percent.

271 Of this figure, 692,025 main business telephones were reported to be served by Telephonos E Mexico, or 95.6 percent; and 5,933 to be served by Telefonica Nacional, S.A. or 0.8 percent.

272 Of this figure, 1,135,824 extensions resident telephones were reported to be served by Telephonos E Mexico, or 99.4 percent; and 1,552 reported to be served by Telefonica Nacional, S.A. or 0.1 percent.

273 Of this figure, 494,133 extensions business telephones were reported to be served by Telephonos E Mexico, or 94.8 percent; and 2,210 reported to be served by Telefonica Nacional, S.A. or 0.4 percent.

274 Of this figure, 3,563 coin box telephones were reported to be served by Telephonos E Mexico, or 94.5 percent; and 55 reported to be served by Telefonica Nacional, S.A. or 1.5 percent.

275 Of this figure, 24,089 public telephone stations were reported to be served by Telephonos E Mexico, or 98.2 percent; and 44 reported to be served by Telefonica Nacional, S.A. or 0.2 percent.

276 Of this figure, 1,818,287 residence subscriber lines in service were reported to be served by Telephonos E Mexico, or 97.0 percent; and 17,148 lines reported by Telefonica Nacional, S.A. or 0.9 percent.

277 Of this figure, 692,025 business subscriber lines in service were reported to be served by Telephonos E Mexico, or 93.7 percent; and 6,223 business lines reported by Telefonica Nacional, S.A. or 0.8 percent.

278 Of this figure, 2,510,312 total subscriber lines in service were reported to be served by Telephonos E Mexico, or 96.1 percent; 23,371 reported by Telefonica Nacional, S.A. or 0.9 percent.

279 Of this figure, 27,568 employees were reported to be Telephonos E Mexico, or 92.4 percent; and 348 employees reported by Telefonica Nacional, S.A. or 1.2 percent.

280 Includes the Board of Directors (68) and Officers (15) Telephonos E Mexico reported to include the Board of Directors (42) and Officers (24), Managers and Sub-Managers, Telefonica Nacional, S.A. reported 7 employees in this category.

281 Estimated (TWT's) based on reported data. (Uruguay)

282 Reported as manual calls.

283 Overland Park, Kansas – Data is for Melrose Zone which principally serves this city.

284 Includes PBX telephones. (Uruguay)

285 As at June 1980. (Uruguay)

286 Number of local calls neither recorded nor metered, (Brunei).

287 Number of inter-urban calls not recorded. The figure given is for meter pulses, (Brunei).

288 Reported as CAMA paid minutes/CAMA-Centralized Automatic Message Accounting, (Brunei).

289 Estimated – national census conducted in 1981. Results not yet available.

290 All 91 codes available to ISD are auto transit. (Brunei)

291 Estimated – national census conducted in 1981. Results not yet available. (Brunei)

292 Palau's data did not lend itself to a valid comparison for this edition. Please see note 493.

293 Data included with PBX statistics. (Brunei)

294 Includes data for extensions to main telephones.

295 The reason for the extremely small number of coin boxes is the widespread use of the so-called pub-phone which is used by many shopkeepers, hotels and coffee shops providing the public with an effective pay station service without the problems of exposed pay-phone booths, (Brunei).

296 All off-island calls via manual exchange at Perth, West Australia using HF radio link. (Kiritimati)

297 1981 Estimate-Europa Yearbook. (Kiritimati's population data)

298 1978 estimate. (Kiritimati)

299 Estimated (TWT's) based on reported number of total residence main telephones, as reported by Kiritimati.

300 Estimated (TWT's) based on reported number of total business main telephones, as reported by Kiritimati.

301 Estimated (TWT's) based on reported number of total main telephones, as reported by Kiritimati.

302 Australian Government Dept. of Transport maintains 1 only PABX, which has capacity for 180 extensions, and is used as the main exchange for the island, (Cocos Island).

303 The H.F. radio telephone system to Australia connects to the PABX, on manual selection, (Cocos Island).

304 ITU's Yearbook of Common Carrier Telecommunications Statistics, 9th edition (1971-1980) reported the following for Botswana as at EOY 1979. 11,700 telephones, 6,400 main lines, 92% automatic, 36% of total main lines are residential.

305 Reported for West Island only. (Cosos Island)

307 Australian Government Dept. of Transport maintains 1 only PABX, which has capacity for 180 extensions for the island, (Cocos Island).

308 Australian Government Dept. of Transport maintains 1 only PABX, which has capacity for 180 extensions, and is used as the main exchange for the island, (Cocos Island).

309 The Philippines reported for this edition 515,874 "other telephones" as step by step controlled. This is actually the same as EMSS category.

310 Please refer to note 314.

311 At 12/31/80, solely for France and New Caledonia. (French Polynesia)

312 All countries not accessible by auto direct. (French Polynesia)

313 Singapore reported 73,140 ESS controlled telephones for the January 1980 edition and 183,524 for this edition.

314 Reported as Emergent countries. (French Polynesia)

315 Includes Mahina and Punaauia telephone data, (French Polynesia).

316 Includes Taravao and Papara telephone data, (French Polynesia).

317 As of 31.12. 80. for this data reported by French Polynesia.

318 Represents New Caledonia and Dependencies.

319 Tonga reported for January 1980 edition: 1774 total telephones, revised population 97,800, 1774 EMSS telephones, 0 ESS telephones, 1227 main telephones, 412 business telephones, 815 residential telephones. For this edition Tonga reported 2196 total telephones, population 97,800, 2196 EMSS telephones, 0 ESS telephones, 1179 main telephones, 1189 business telephones, 1007 residential telephones.

320 Taiwan reported for January 1980 edition: 2,566,078 total telephones, 17,550,000 population, 2,362,092 EMSS telephones, 154,535 ESS telephones, 1,729,578 main telephones, 1,225,820 business telephones and 1,340,258 residential telephones. Taiwan reported for this edition: 3,166,169 total telephones, 17,866,000 population, 2,885,633 EMSS telephones, 243,640* ESS telephones, 2,160,494 main telephones, 1,372,686 business telephones and 1,773,483 residential telephones.

321 Population data included with Nuku'Alofa, Tonga.

322 Iran reported for the January 1980 edition: 730,000 total telephones, 33,708,700 population and 730,000 EMSS controlled telephones. Iran reported for this edition: 1,227,293 total telephones, 38,784,000 population and 1,227,293 EMSS controlled telephones.

323 Formerly the Sudanese Republic.

324 Reported to include 8980 operational employees. (New Zealand)

325 United Kingdom's data reported as at March 31, 1981.

326 40% of subscribers will have access to ISD to USA in 1981-82, (.40X25422=10,169). (Papua New Guinea)

327 National census 1980. (Papua New Guinea)

328 Local people: 2,974,799 ÷ 6.5 = 457,661

Expratriate: 32,000 ÷ 3.2 = 10,000 (2%) Papua New Guinea

Total:	3,006,799	467,661

6.5 average for local household.
3.2 average for expatriate household 2% from 6.5 - 6.37 persons per household. (Papu New Guinea)

330 The figures for the population and number of households are lower accordingly to the national census, 1980.

331 The figures for the principal cities have changed (have been just estimated in the past). (Papua New Guinea)

332 The figures for Arawa do not include Kieta and Panguna anymore. (Papua New Guinea)

333 The figure of employees was shown for the whole department for 1979, for 1980 we provide you with figure of employees just involved in the Telecom. Service. (Papua New Guinea)

334 Via NF Radio. (Palau)

335 Source: 1980 Trust Territory Pacific Islands: U.S. Dept. of the Interior. (Population re Palau, Micronesia)

336 Government seat. (Palau)

337 Palau reported the following: for your further information we are still installing subscribers lines based on the type of service requested by applicants which we receive. Our new installed telephone exchange (on August 1981) is capable of handling 800 private lines and can be doubled for requested party lines. We have no information at this time as to the number and type of services we are going to maintain after the completion of the entire installation.

338 PLDT (Philippines Long Distance Telephone Company).

339 Source: NCSO Research Note No. 1-B Population Studies Division. (Philippines)

340 Telephone Engineer and Management Directory, 1981-82, a Harcourt Brace Jovanovich Publication reported a government operated system serving 590 magneto telephones, 1 central office. (Falkland Islands)

341 Source: NCSO Research Note No. 1-B Population Studies Division. (Philippines principal cities)

342 Banaba Island no longer has a telephone network in commission. Please see Kiribati and associated note.

343 No data recorded, (Pitcairn Island).

Notes to the Tables (continued 344–423)

Missing numbers represent notes that were consolidated or not required

344 No international telephone service.

345 There is no switchboard on Pitcairn; the telephones are linked on two party lines.

346 Actual population reported as 0063. (Pitcairn Island)

347 No metering system.

348 The combination of direct circuit and transmit unit arrangements will allow for 175 country codes. (Solomon Islands)

349 Reported as 1976 data. (Solomon Islands)

350 Reported as principal towns. (Solomon Islands)

351 Kiribati consists of 3 groups of coral atolls and one isolated volcanic island, spread over a large expanse of the central Pacific with a total land area of 684 square km (264 sq. miles). It comprises Banaba or Ocean Island (5 sq. km), the 16 Gilbert Islands (295 sq. km), the Phoenix Islands (55 sq. km), and 8 of the 11 Line Islands (329 sq. km), the other 3 Line Islands (Jarvis, Palmyra and Kingman Reef) being uninhabited dependencies of the U.S. Banaba, all 16 Gilbert Islands, and 3 atolls in the Line Islands (Teraina, Tabuaeran and Kirimati – formerly Washington, Fanning and Christmas Islands respectively) are inhabited; their population in 1980 were as follows:

Banaba (Ocean) Is.	300	Kuria	803	Arorae	1,527
Makin	1,419	Aranuki	850	Teraina	416
Butaritari	3,149	Nonouti	2,284	Tabuaeran	434
Marakei	2,335	Tabiteuea	4,157	Kiritimati	1,265
Abaiang	3,447	Beru	2,212	Tarawa	22,148
Nikunau	1,829	Maiana	1,688	Onotoa	2,034
Abemama	411	Tamana	1,349		
				Total	55,964

The remaining 13 atolls have no permanent population; the 8 Phoenix Islands comprise Birnie, Rawaki (formally Phoenix), Enderbury, Kanton (or Abaringa), Manra (formally Sydney), Orona (formally Hull), Mc Kean and Line Islands and Caroline, Flint and Vostok in the Southern Line Islands. The population are almost entirely Micronesian, composed of Banabans on Ocean Island and Gilbertese on all the inhabited atolls. (Source: Statemen's Yearbook – 1982.)

352 Data includes residence mains. (Singapore)

353 Data included with business mains. (Singapore)

354 Via a reported 32 circuits. (Thailand)

355 Include in pulse metered, local conversation. (Thailand)

356 Estimated – 1976; countries of the world and their Leaders Yearbook, 1981; Gale Research Company. (Tuvalu)

357 Via transit arrangements. (Western Samoa)

358 Reported as paid minutes, (Western Samoa)

359 January 1, 1980 data. (Western Samoa)

360 Reported as minutes.

361 Estimated (TWT's) from reported data from Seychelles.

362 Includes private branch exchange telephones. (Seychelles)

363 Please refer to extension telephone data.

364 Saudi Arabia reported for January 1980 edition: 280,491 total telephones, 8,300,000 population, 159,809 ESS controlled telephones, 114,014 ESS controlled telephones, 280,491 main telephones, 67,318 business telephones, 213,173 residental telephones. For this edition: 442,514 total telephones, 8,300,000 population, 9,882 EMSS controlled telephones, 426,975 ESS controlled telephones, 407,114 main telephones, 115,030 business telephones, 327,484 residential telephones.

365 Does not include the Baltic States per the data source; (Countries of the World and Their Leaders Yearbook, 1981; published by Gale Research Company).

366 Estimated (TWT's) based on total number of main telephones reported by the USSR.

367 In June, 1979; Mr. R.C. Cunard, Country Manager; AT&T Long Lines Overseas Dept. reported that the government for the People's Republic of China stated that there were about 3.6 million telephones in the nation, all connecting government offices. INTELTRADE, Vol. 4, No. 21, page 6; November 15, 1981 stated "In mainland China some 6 million new telephones will be installed through 1990."

368 1980 estimate. Source: Countries of the World and Their Leaders Yearbook 1981 as published by Gale Research Company; Detroit, Michigan, U.S.A. (China-mainland)

369 U.A.E. reported for the January 1980 edition: 155,565 total telephones, 891,600 population, 151,008 EMSS telephones, 4,557 ESS telephones, 84,471 main telephones, 95,109 business telephones, 60,456 residental telephones. For this edition: 208,896 total telephones, 1,043,100 population, 28,856 EMSS telephones, 160,040 ESS telephones, 109,495 main telephones, 121,185 business telephones, 87,711 residential telephones.

370 Estimated 1970 – Europa Yearbook. (China-mainland)

371 Telephony; March 30, 1981, page 58/Telephone Publishing Corporation/reported Peking to have a total population of 8 million and 200,000 telephones. (China-mainland)

372 In June, 1979; Mr. R.C. Cunard, Country Manager; AT&T Long Lines Overseas Dept. reported that the government for the People's Republic of China stated that there were about 3.6 million telephones in the nation; all connecting government offices.

373 Reported as the actual number of IDD subscribers. (Hong Kong)

374 Hong Kong telephone reports that all urban interurban calls are free and not metered.

375 Manual pay and collect, (Hong Kong).

376 Reported as direct dialed calls by Hong Kong Telephone.

377 IDD not available.

378 Includes PBX telephones. (Hong Kong)

379 Reported to represent total with EMSS and ESS, and includes 1,609,623 EMSS Wire-Broadcast Telephones, (Japan).

380 See EMSS data for Japan and associated note 379.

381 Japan's data included 1,723,270 Wire-Broadcast Telephone Exchange Telephones, per the Japan National Wired-Telephone Association. The Wire-Broadcast telephone exchanges generally serve small rural areas and are connectible to the public network with limitations but are not permitted to connect with overseas. 1,609,623 of these telephones are reported to be automatic: 359,476 are provided by municipalities, with 1,363,794 by private companies. All of these wire-broadcast telephones were reported as main telephones. (The Nippon Telegraph & Telephone Public Corporation does not count these telephones in their count of the number of telephones for Japan).

382 Reported to represent Wire-Broadcast Telephone Exchanges (WTE). (Japan)

383 Reported to include 1,723,270 Wire-Broadcast Telephone Exchanges (WTE). (Japan). Please to note 381.

385 Represents the number of "Pink Coin Telephones" which are subscriber lines, unable to be used without depositing a coin but able to be used by handling a subscriber's key without depositing a coin, (Japan).

386 Includes group telephones (Centrex type), (Japan).

387 The 1981 Telephone Engineer and Management Directory/a Harcount Brace Jovanovich Publication/reported a government system operating 7,315 telephones, 867 percent dial. (Kampuchea)

388 Source: Countries of the World and Their Leaders Yearbook 1981 as published by Gale Research Company, Detroit, Michigan, U.S.A.; reported 4,800,000 to 5,200,000 (1980 estimate). TWT's staff used an average of these figures. (Kampuchea)

1979 estimate – Europa Yearbook. (Phnon-Penn, Kampuchea)

391 Leiden's data includes Leiderdorp and Oegstgeest, Netherlands.

392 The 1981 Telephone Engineer and Management Directory/a Harcount Brace Jovanovich Publication/reports 2,383 telephones (2,000 dial, 383 magneto), 6 exchanges (1 dial and 5 magneto) for Laos.

393 Rotterdam's data includes Schiedam, Netherlands.

394 Utrecht's data included De Bilt, Netherlands.

395 1973 data – Europa Yearbook. (Laos)

397 As at 1 October 1980. (Population data for Rep. of Korea)

398 Figures given for population are based on the total census held on 1 October 1980. (Korea, Rep. of)

399 Please see Kiribati and associated note 351.

400 The 1981 Telephone Engineer and Management Directory/a Harcourt Brace Jovanovich Publication/reports 118,000 telephones (66,080 dial, 12,980 common battery, 27,140 magneto) for Vietnam.

401 Tuvalu is still without a telephone system.

403 1979 data – Europa Yearbook. (Hanoi, Vietnam)

405 The 1981 Telephone Engineer and Management Directory/a Harcourt Brace Jovanovich Publication/reported 26,200 telephones (17,700 dial, 2,100 common battery, 6,400 magneto) served by 29 central offices for Afghanistan.

406 "The World's Telephones – January 1, 1979 edition" reported 121 telephones, 60.5 telephones per 100 population, 100 percent connecting with U.S. government operation, 116 subscriber lines (78 business, 38 residence) for Wake Island.

408 1979 estimate – Europa Yearbook. (Afghanistan)

411 Based on 1979 reported data from Bahrain.

412 Estimated (TWT's), based on reported data for Bahrain.

413 Population including armed forces overseas was 228,830,000.

414 Includes international outgoing "all other data", (Bahrain).

417 Telephony's Directory and Buyer's Guide for the Telecommunication Industry, 86th annual edition, 1981-82 issue reported the following data for Equador. 244,000 telephones; 99 percent dial; 203,000 single-party lines; 380 public telephones; data transmission under study. Two toll exchanges located in Quito and Gusyaquil, interconnected by two high capacity microwave systems.

418 This table (16) displays data concerning telephone development based on telephone instruments furnished by U.S. telephone companies.

419 Reported as the new name for Kermanshah, Iran.

420 Including mobile exchanges. (Israel)

421 January 1, 1980 reported data.

422 The city of Kuwait, Kuwait.

423 American Telephone and Telegraph Company and its principal telephone subsidiaries and excludes 462,625 private line telephones.

Notes to the Tables (continued 424–502)

Missing numbers represent notes that were consolidated or not required

424 Estimated (TWT's) based on total number of main telephones reported for business and residence, (Maldives).

425 The Tokelau Islands do not have a telephone system. They do, however, have three radio-telephone sets for direct communication with Western Samoa. These sets are located at the Islands Administrative Offices and are available for limited use by the small population.

426 1979 data. (Maldives)

427 NA due to not being applicable, (United Arab Emirates).

428 Reported as minutes, (United Arab Emirates).

429 Non-Bell System Company telephones for which switching service is provided. Principally government installations (business) and "farmers' lines" (residence).

430 Includes interurban and international metered pulses, (Turkey).

431 Included in local pulse metered data, (Turkey).

432 Includes public telephone stations, (Turkey).

433 The 1981 Telephone Engineer and Management Directory/a Harcourt Brace Jovanovich Publication/reported 253,262 telephones (234,507 dial, 18,755 common battery and magneto); 1,436 exchanges (including 1,094 PABX, 37 automatic and 305 manual offices) for Iraq.

434 Mid 1981 estimate – Population Reference Bureau. (Iran)

435 Source: United Nations; Director, Population Division; Department of International Economic and Social Affairs.

437 1976 Data – Europa Yearbook. (Iraq)

439 India's data as at March 31, 1981.

440 Reported as effective outgoing calls, including subscriber dialed calls, (India).

442 Population census of India 1981.

443 U.A. – Urban Agglomerations. (India)

444 M.C. – Municipal Corporation. (India)

445 Telephone Engineer and Management Directory, 1981-82, a Harcourt Brace Jovanovich publication reported a government-operated system serves 5,400 telephones, 92.6 percent dial, for Nepal.

446 Estimated (TWT's) based on total number of main telephones reported by India.

447 Based on 1979 reported data from Qatar.

448 All of Qatar's network is reported to be flat rate tariff.

449 Telephony's Directory and Buyer's Guide for the Telecommunications Industry; 86th Annual Edition, 1981-82 issue reported the following information for Guyana. 26,562 telephones; 1,233 employees; 100 percent dial, 25 central offices, 102 public telephones, 305 PBX, Strowger step by step switching equipment.

450 Telephone Engineer and Management Director, 1981-82, a Harcourt Brace Jovanovich publication reported 150,370 telephones, 92 percent dial for Lebanon.

451 For the latest data on Burundi's telephony development, please refer to "The World's Telephones – January 1, 1979" edition.

452 Data included with local pulse metered, (Saudi Arabia).

453 The decrease of total countries by 2 over last year represents combining of U.A.E. from 3 codes to 1.

454 Telephone Engineer and Management Directory, 1981-82, a Harcourt Brace Jovanovich publication reported 21,000 telephones, (18,000 dial and 3,000 common battery), 87 central offices (9 dial, 2 common battery and 76 magneto) for Jordan.

455 Spelling changed from Mecca, Saudi Arabia.

456 Telephone Engineer and Management Director, 1981-82, a Harcourt Brace Jovanovich publication reported 16,220 telephones, 87.1 percent dial, for Mongolia.

457 Reported for Saudi telephone only. (Saudi Arabia)

458 Reported to represent total equipped capacity of telephone exchanges. International dialing and elections controlled switched telephones are included in the automatic equipped capacity, (Pakistan).

459 Reported as manual overseas calls, (Pakistan).

460 Reported as "working telephones". (Pakistan)

461 Reported as "working main telephones" 259,230. (Pakistan)

462 Reported as working telephones. (Pakistan)

463 Reported as working telephones totalling 281,890. (Pakistan)

464 Estimated (TWT's) based on total working main telephones reported by Pakistan.

465 Telephone and Engineer Directory, 1981-82, a Harcourt Brace Jovanovich Publication reported 4,500 dial telephones, one central office, for Oman.

466 Population data. 1977 estimate for Long Island, Bahamas.

467 Andros Island population – 8,845, 1977 estimate for island, (Bahamas)

468 Eleuthera population – 9,740, 1977 estimate for island, (Bahamas)

469 1979 estimate – Europa Yearbook. (Bissau, Guinea-Bissau)

470 Not applicable. (France)

471 For telephone data for Burundi's principal cities, please refer to "The World's Telephones – January 1, 1978" edition, Table 5, page 31.

472 For the latest reported data on telephony in Cameron, please refer to "The World's Telephones – January 1, 1978" edition.

473 For the latest reported data on telephony in Cameron's principal cities, please refer to "The World's Telephones – January 1, 1978" edition, Table 5, page 31.

475 Amsterdam's data includes Diemen. (Netherlands)

476 Japan's reported data as at March 31, 1981.

477 The number of new telephone installations in Japan has leveled off in recent years, according to a "Communications White Paper for the Fiscal Year 1981," recently published by Japan's Ministry of Postal Services. In the paper, the Ministry said it had planned to install 1,350,000 units during the 1980 fiscal year, but that number fell short by 80,000 sets.

The paper reported that there is one telephone for every three people in Japan. Revenues from telephone service in Japan during fiscal 1980 amounted to $164 billion, a 3.8% increase over the previous year.

While installation of telephone sets has leveled off in Japan, data communications has dramatically increased. The number of systems installed increased 25.9% to 5,879. In terms of circuits in operation, private lines increased 20% to 100,000 circuits, while public lines, 46% to 34,000 circuits. Revenues from data communications amounted to $727 million, 16.4% over the previous year.

Source: Feedback from Fujitsu, Winter, 1982; Vol. 3, No. 1., page 5.

477 Telephone Engineer and Management Directory, 1981-82, a Harcourt Brace Jovanovich Publication reported 193,026 telephones (172,899 dial, 450 common battery, 19,677 magneto). 128 central offices (19 dial, 1 common battery, 108 magnetos) for Syria.

478 Reported as minutes, (Taiwan).

479 Data reported for S'Gravenhage (The Hague) includes Rijswijk and Yoorburg. (Netherlands)

480 Haarlem's data includes Bloemendaal and Heemskerk. (Netherlands)

481 Reported data as of January 1, 1980. (Nauru' population)

482 Leiden's data includes Leiderdorp and Oegstgeest. (Netherlands)

483 Rotterdam's data includes Schiedam. (Netherlands)

484 Utrecht's data includes De Bilt. (Netherlands)

485 1978 data.

486 Estimated data based on ratio of reported data for March 31, 1980. (TWT's – United Kingdom)

487 For the latest reported telephony data for Netherland's principal cities, please refer to "The World's Telephones – January 1, 1980" edition.

488 Reported as effective calls.

489 Reported as effective calls; continental outward calls 79,503,000 and intercontinental calls 37,001,000.

490 Telephony's Directory and Buyer's Guide for the Telecommunications Industry, 86th Annual Edition, 1981-82 Issue reported the following for Central African Rep. 2,755 telephones, 90% dial, 10% central office exchanges, 12 key systems.

491 Breakdown as follows: (United Kingdom)

Telecom HQ	3,786
Regional HQ	14,082
Telephone Areas	193,476

492 Reported as executives. (United Kingdom)

493 Republic of Palau. Palau's two (2) major islands are Koror (Government Seat) and Babelthuap. The government was sworn in on January 1, 1981. Formerly Palau District (part of U.S. Trust Territory of the Pacific), and still remains as a part of the Trust Territory which has not been terminated. The Trust Territory is comprised of three (3) major groups: Republic of Palau, Federated States of Micronesia and the Marshall Islands. Each has its own government and constitution with a President, Vice President and Bicameral Legislature with greater control over internal affairs. These three (3) major groups will be referred to as "Freely Associated States". (Unlike Guam and the Northern Marianas which will be called Territories.) Geographically Palau and Yap are part of the Western Caroline Islands, but are politically separate. Palau (English spelling) may sometimes be spelled Belau. Source: Office for Micronesian States Negstications (part of U.S. Dept. of Interior, Washington, D.C.).

494 Reported as National and United Kingdom.

495 Reported as Interurban/National calls excluding United Kingdom.

496 Reported as calls, (United Kingdom).

497 The United Kingdom is the first most frequently called country due to proximity.

498 Includes private branch exchange extension telephones. (Ireland)

499 Estimated (TWT's) based on ratio of reported data for main telephone and subscriber lines. (Ireland)

500 Reported as all staff other than engineering and operating personnel. (Ireland)

501 Reported as all engineering and operating personnel. (Ireland)

502 Philippine's data reported by the Phillipine Long Distance Telephone Company.

Notes to the Tables (continued 503–593)

Missing numbers represent notes that were consolidated or not required

503 Mr. R.B. Nichols, Vice President – Overseas; AT&T Long Lines stated the following in October, 1981 about Telecommunications in the People's Republic of China. "Current Communications in the People's Republic of China are not sophisticated. It's no problem to channel telephone calls into either Shanghai or Peking, but to get beyond those cities is often an insurmountable task. The Chinese have microwave connections to six other major cities, but it's extremely hard to reach any other. In fact, there are two provinces in China that can be reached from Peking only by which frequency radio, which isn't even on the air 24 hours a day."

504 Includes Rozendoal. (Netherlands)

505 Includes Schiedam. (Netherlands)

506 Includes De Bilt. (Netherlands)

507 Includes PBX telephones. (Netherlands)

508 PBX data included PBX extensions. (Netherlands)

509 See South Africa. All Bophuthatswana international traffic is usually via South Africa.

510 Capital city. (Bophuthatswana)

511 Estimated (TWT's) based on reported number of main telephones reported by Bophuthatswana.

513 Does not include customer dialed, operator assisted calls (World Zone 1), and does not reflect calling within North American Numbering Plan. With the inclusion of data for dialed calls within the North American Dial Plan. The percentage would be estimated at 70.0. However, 82.0% of all calls to locations within North American Dial Plan are direct dialed.

514 South Africa declared the Republic of Transkei independent on October 26, 1976: the Republic of Bophuthatswana on December 6, 1977, the Republic of Venda on September 13, 1979, and the Republic of Ciskei on December 4, 1981. As of publication time, South Africa was the only country known to have diplomatic links with these republics.

515 South Africa declared the Republic of Ciskei independent on December 4, 1981. The Republic of Ciskei's telephone status is included with the data for South Africa for their edition.

516 Telefonica Nacional, S.A. data only.

517 Telefonica Nacional, S.A. reported 100% of their reported international outgoing pulse metered traffic (883.0) was ISD.

518 Telefonica Nacional, S.A., Mexico reported their most frequently called countries as follows: 1st – United States, 2nd – Canada, 3rd – Germany, Fed. Rep., 4th – Spain, 5th – United Kingdom, 6th – Switzerland, 7th – Guatemala.

519 Telfonica Nacional, S.A. reported 36 employees in this category. (Mexico)

520 Telephone Engineer and Management Directory, 1981-82, a Harcourt Brace Jovanovich Publication reported 14,638 telephones and 14 central offices.(Bh

521 Estimated (TWT's) based on reported data as of January 1, 1978. (Tanzania)

524 Source: 1980 estimate, United Nations; Director, Population Division; Department of International Economic and Social Affairs. [Yemen (Aden) population].

525 Source: 1980 estimate, United Nations; Director, Population Division; Department of International Economic and Social Affairs. [Yemen (Sanaa) population].

526 "The World's Telephones – January 1, 1980" edition reported 1,626 telephones, 8.6 telephones per 100 population, 0 automatic, Government operation 1,114 main telephones, 265 business mains, 849 residence main, 100% connecting to U.S., 425 PBX telephones, 500 business subscriber lines and 200 residence subscriber lines, 26 telephone employees for Cook Islands.

527 Source: 1975 estimate, Countries of the World and Their Leaders Yearbook 1981 as published by Gale Research Company; Detroit, Michigan, U.S.A. (Syria)

529 Cook Islands' principal cities of Aitutaki and Rarotonga were reported having 147 and 1,499 telephones respectively and 136 and 1,221 main telephones respectively by "The World's Telephones – January 1, 1980" edition.

531 Source: Population data – 1980 estimate. United Nations; Director, Population Division; Department of International and Social Affairs. (TWT's has been advised that Oman apparently have never undertaken an official census.)

532 Please refer to "The World's Telephones – January 1, 1980" edition for the latest data reported from Dominica.

534 Source: 1978 estimate, Countries of the World and Their Leaders Yearbook 1981 as published by Gale Research Company; Detroit, Michigan, U.S.A. (Mongolia)

536 "The World's Telephones – January 1, 1980" edition reported Indonesia having 392,563 telephones, 0.2 per 100 population, 70.1% automatic, Government operation, 275,125 main telephones, 117,438 PBX telephones, and an estimated 275,125 subscriber lines.

537 Please refer to "The World's Telephones – January 1, 1980" edition for the latest data reported by Cayman Islands.

539 "The World's Telephones – January 1, 1980" edition reported data for Indonesia's principal cities in Table 13, page 64.

540 "The World's Telephones – January 1, 1978" edition reported 648 telephones, 129.6 per 100 population, Government operation for Midway.

543 Naura reported that they regrettably were not able to supply the desired data for this edition. "The World's Telephones – January 1980" edition reported 1600 telephones, 22.0 per 100 population, 100 percent automatic, government operation; 1,200 main telephones (200 business and 1,000 residence), 200 PBX telephones, 1,400 subscriber lines and 33 employees.

548 Reported as changeable units, (Belgium).

549 Reported as communications (calls), (Belgium).

550 No distinction is made by this administration between residence and business subscribers, (Belgium).

553 Telephony's Directory and Buyer's Guide for the Telecommunications Industry, 86th Annual Edition, 1981-82 edition reported 42,700 telephones and a government administration for the Netherlands Antilles.

555 Source: Population 1976 estimate, Countries of the World and Their Leaders Yearbook 1981 as published by Gale Research Company; Detroit, Michigan, U.S.A. (Ecuador)

557 Data reported as of January 1, 1980. (Ecuador)

558 Source: Population 1976 estimate, Countries of the World and Their Leaders Yearbook 1981 as published by Gale Research Company; Detroit, Michigan, U.S.A. (Midway Islands)

559 Niue's administration reported that they regretted being unable to furnish data for this edition. "The World's Telephones – January 1, 1979" edition reported 341 telephones, 9.8 telephones per 100 population, government operation, 258 main telephones, 83 PBX telephones, 9 employees.

562 "The World's Telephones – January 1, 1979" edition reported the following data for Wallis and Futuna Islands: 165 telephones, 1.7 telephones per 100 population, 100 percent connecting to U.S., government operation, 116 main telephones, 117 business and 48 residence, 2 public telephones, 116 subscriber lines (78 business, 38 residence) 5 employees.

563 Estimated (TWT's) based on reported number of main telephones reported by Bolivia.

566 Source: Population 1977 estimate, Countries of the World and Their Leaders Yearbook 1981 as published by Gale Research Company; Detroit, Michigan, U.S.A. (Wake Island)

567 Source: Population 1977 estimate, Countries of the World and Their Leaders Yearbook 1981 as published by Gale Research Company; Detroit, Michigan, U.S.A. (Wake Island).

568 Per ITU Notification Bulletin no. 1174:

Country Codes for the International Telephone Service

At the request of the Administration of the United States and in accordance with the provisions of CCITT Recommendations E.163, the country code 670 has been alloted to the telephone network of the Marianna Islands.

569 This figure is considered to be an incomplete world total due to only 59.2% of the world's telephone administrations and operating companies supplying data for this edition. The non-reported telephones connected to various national public telephone networks throughout the world are conservatively estimated to total 16,860,000 for an estimated world total of 525,147,000 telephones.

570 Data reported as of January 1, 1980. (Cook Islands)

571 Of this figure, Compania Peruana De Telefonos S.A. reported 428 magneto type telephones.

572 Estimated (TWT's).

573 International services available as per the British Telecommunications Network. (Guernsey, C.I.)

574 Charge bands 1, 2 and 3 only, (Guernsey, C.I.).

575 Estimated (TWT's) based on total reported main telephone count reported by Guernsey, C.I.

576 "The World's Telephones – January 1, 1979" edition reported data for Futuna Island and Wallis Island, Table 12, page 58.

577 City population data as of December 31, 1978.

578 Includes PBX telephones. (Gabon)

579 Data included with PBX data.

580 Includes extensions to main telephones.

582 Source: Population – 1976 census, Countries of the World and Their Leaders Yearbook 1981 as published by Gale Research Company; Detroit, Michigan, U.S.A. (Tokelau Islands)

583 Reported as paid minutes.

584 The new ISD Gateway Exchange was installed and operational on February 15, 1982. Presently ISD facilities are available to Australia and New Zealand only. ISD to the U.S.A. is planned for later in the year. At the moment less than one percent of all international calls is ISD. Semi/Auto thru cable and wireless manual board continues to be main outlet. Since early 1981 Tonga has had incoming ISD from Australia, New Zealand and the United Kingdom. (Tonga)

585 CPTSA of Lima reported these 370,103 telephones. (Peru)

586 CPTSA of Lima – estimated data. (Peru)

587 CPTSA of Lima reported an estimated 4,165.3 pulse metered for interurban calling. (Peru)

588 Interurban effective calls reported by ENTEL. (Peru)

589 Of this figure, ENTEL reported 71,400 EMSS telephones, and CPTSA of Lima reported 369,675 telephones (this figure apparently includes some ESS switched telephones), (Peru).

590 ENTEL reported 117,020 total telephones, (Peru).

591 ENTEL reported Italy to be their 4th most frequently called country and Argentina as the 5th most frequently-called country, and CPTSA of Lima reported Spain as their 4th most frequently called country. (Peru)

592 ENTEL reported Spain to be their 3rd most frequently called country, and CPTSA of Lima reported Colombia as their 5th most frequently called country. (Peru)

593 Includes telephone count data for Compania Peruana De Telefonos, S.A.; Lima, Peru.

Notes to the Tables (continued 594–726)

Missing numbers represent notes that were consolidated or not required

594 ENTEL reported 22,265 extensions to main telephones, and CPTSA of Lima reported 63,482 extensions to main telephones. (Peru)

595 Of this figure, ENTEL reported 17,831 PBX telephones, and CPTSA of Lima reported 91,534 PBX telephones. (Peru)

596 ENTEL reported 64,361 resident telephones, and CPTSA of Lima reported 205,837 resident telephones. (Peru)

597 ENTEL reported 52,659 business telephones, and CPTSA of Lima reported 164,266 business telephones. (Peru)

598 ENTEL reported 42,308 resident main telephones, and CPTSA of Lima reported 168,818 resident telephones. (Peru)

599 ENTEL reported 34,616 business main telephones, and CPTSA of Lima reported 46,269 business telephones. (Peru)

600 ENTEL reported 12,245 resident extension telephones, and CPTSA of Lima reported 36,639 resident extensions. (Peru)

601 ENTEL reported an estimated 10,020 business extension telephones, and CPTSA of Lima reported 26,843 business extensions. (Peru)

602 ENTEL reported 22,265 total extension telephones, and CPTSA of Lima reported 63,482 total extensions to main telephones. (Peru)

603 Of this figure, ENTEL reported 17,831 PBX telephones, and CPTSA of Lima reported 91,534 PBX telephones. (Peru)

604 ENTEL reported 702 public telephone stations with international calling capability, (Peru).

605 ENTEL reported a total of 274 coin box telephones, (Peru).

606 ENTEL reported a total of 720 public telephone stations, and CPTSA reported 2,303 total public telephone stations, (Peru).

607 Of this figure, ENTEL reported 42,308 resident subscriber lines, and 168,865 were reported by CPTSA of Lima, Peru.

608 Of this figure, ENTEL reported 34,616 business subscriber lines, and 61,306 were reported by CPTSA of Lima, Peru.

609 Of this figure, ENTEL reported 76,924 total subscriber lines, and 230,171 were reported by CPTSA of Lima, Peru.

610 Of this figure, ENTEL reported 7,200 total employees, and 3,810 were reported by CPTSA of Lima, Peru.

611 Population data 1978 estimate for Metropolitan Area – Europa Yearbook. (Muscat, Oman)

612 Statesman's Yearbook. (Nepal)

613 1971 population data – Encyclopedia of the Third World. (Bhutan)

614 1973 census data – Europa Yearbook. (Burma)

617 Telephone Engineer and Management Directory, 1981-1982, A Harcourt Brace Jovanovich Publication reported 10,054 telephones (9,862 dial; 132 common battery, 60 magneto) 11 exchanges (7 dial, 3 common battery, 1 magneto); 2 central offices.

618 Data reported EOY 1979. (Ascension Island)

623 Telephone Engineer and Management Directory, 1981-1982, A Harcourt Brace Jovanovich Publication reported 1,000 line automatic exchange has been brought into service at Mukalla, a provincial town. 5 other automatic exchanges are planned for most of the remaining towns.

626 Telephony's Directory and Buyer's Guide for the Telecommunications Industry, 86th Annual Edition, 1981-1982 issue reported the following for Haiti. 20,025 telephones, 99% dial, 5 central office exchanges; 21,000 single-party lines; 51 public telephones; 5 data transmission, 10 data sets, 30 key systems, 23 PBX's; Cross Bar and Electronic switching facilities.

629 Please refer to The World's Telephones – January 1, 1980 for the Ghana's latest reported data. Principal cities' data is on page 54.

632 Source: Population, 1974 estimate. Countries of the World and Their Leaders Yearbook 1981 as published by Gale Research Company; Detroit, Michigan, U.S.A. (Central African Republic)

633 Source: Population, 1976 estimate. Countries of the World and Their Leaders Yearbook 1981 as published by Gale Research Company; Detroit, Michigan, U.S.A. (Chad)

634 Berwyn is served from Cicero Central office.

635 Source: Population, 1976 estimate. United Nations; Director, Population Division; Department of International and Economic and Social Affairs. (Chad)

636 Source: Population reported to range 30-40,000, 1976 estimate. Countries of the World and Their Leaders Yearbook 1981 as published by Gale Research Company; Detroit, Michigan, U.S.A. (Chad)

639 For the latest reported data on telephony in Chad, please refer to "The World's Telephones – January 1,1979" edition.

640 There may appear to be some discrepancy in the reported data due to varying interpretation concerning originated international traffic for the categories shown.

643 Source: Population, 1978 estimate. Countries of the World and Their Leaders Yearbook 1981 as published by Gale Research Company; Detroit, Michigan, U.S.A. (Comoros)

645 Telephony data on Chad's principal cities may be found in "The World's Telephones – January 1, 1979" edition; Table 12 page 46.

649 Data shown originally reported for January 1, 1980 TWT's edition. (Ghana)

652 Capital city, also capital of Macias Nguema Biyago Province. Source: Countries of the World and Their Leaders Yearbook 1981 as published by Gale Research Company; Detroit, Michigan, U.S.A. (Equatorial Guinea)

654 Capital of Rio Mani Province. Source: Countries of the World and Their Leaders Yearbook 1981 as published by Gale Research Company; Detroit, Michigan, U.S.A. (Equatorial Guinea)

656 Data originally reported for January 1, 1980 TWT's edition. (Ivory Coast)

657 Source: Population, 1976 data. Countries of the World and Their Leaders Yearbook 1981 as published by Gale Research Company; Detroit, Michigan, U.S.A. (Lesotho)

659 Some data on telephony development in the Comoros may be found in "The World's Telephones – January 1, 1977" edition.

662 Data reported for January 1, 1980 TWT's edition. (Monrovia, Liberia)

662 For data on telephony development in the People's Republic of the Congo, please refer to "The World's Telephones – January 1, 1978" edition. Principal cities' data may be found on page 33.

664 Flat rate tariff, therefore no records are available, (Macao).

665 Approximate. (Macao)

666 The system is presently operated on an interconnect basis and records are not available to provide this data. (Macao)

667 Please see note 666.

668 Please refer to "The World's Telephones – January 1, 1980" edition for the latest data reported by Anguilla.

669 Population, 1975 estimate. Source: Countries of the World and Their Leaders Yearbook 1981 as published by Gale Research Company; Detroit, Michigan, U.S.A. (Libya)

671 For the latest reported data on Djibouti telephony, please refer to "The World's Telephones – January 1, 1980" edition. Principal cities' data may be found on page 53.

672 1973 census. Source: Countries of the World and Their Leaders Yearbook 1981 as published by Gale Research Company; Detroit, Michigan, U.S.A. (Libya)

673 Telephone Engineer and Management Directory, 45th year, 1981-1982 edition, A Harcourt Brace and Jovanovich Publication reported the following for the Rep. of Guinea. 10,000 telephones, (7,500 dial; 2,500 magneto) 110 central offices (3 dial, 107 magneto).

676 Population: 1979 estimate. Source: Countries of the World and Their Leaders Yearbook 1981 as published by Gale Research Company; Detroit, Michigan, U.S.A. (Malagasy)

678 Data originally reported for the January 1, 1978 TWT's edition. (Malagasy). For additional data, please refer to this edition as it is the latest reported information.

679 Population: 1977 estimate. Source: Countries of the World and Their Leaders Yearbook 1981 as published by Gale Research Company; Detroit, Michigan, U.S.A. (Mali)

681 For data on Nicaragua's principal cities, please see "The World's Telephones, January 1, 1980" edition; Table 13, page 63.

682 Population, 1977 census. Source: Countries of the World and Their Leaders Yearbook 1981 as published by Gale Research Company; Detroit, Michigan, U.S.A. (Mauritania)

684 Nouakchott's population. 1978 estimate. Source: Countries of the World and Their Leaders Yearbook 1981 as published by Gale Research Company; Detroit, Michigan, U.S.A. (Mauritania)

685 Estimated data for United States and represents the number of ISD equipped telephones in the U.S. for international and intercontinental/interzonal calling.

686 Data originally reported for January 1, 1980 TWT's edition. (Morocco)

689 Population data are estimated originally reported for the January 1, 1980 TWT's edition. (Morocco)

690 Data originally reported for the January 1, 1980 TWT's edition. (Mozambique)

693 Data originally reported for the January 1, 1980 edition of TWT's. (Mozambique)

694 Population, 1978 data. Source: Countries of the World and Their Leaders Yearbook 1981 as published by Gale Research Company; Detroit, Michigan, U.S.A. (Niger)

696 Population fluctuation. Source: Countries of the World and Their Leaders Yearbook 1981 as published by Gale Research Company; Detroit, Michigan, U.S.A. (Niger)

699 Data reported for the January 1, 1980 TWT's edition. (Nigeria)

704 Telephone Engineer and Management Directory, 45th year, 1981-1982 issue, A Harcourt Brace Jovanovich Publication reported Somalia having 4,800 telephones, government system, 90 percent dial.

705 Mogadiscio population – 1973 estimate; Hrrguisa population – 1968 estimate. (Somalia) Source: Countries of the World and Their Leaders Yearbook 1981 as published by Gale Research Company; Detroit, Michigan, U.S.A.

707 Please refer to "The World's Telephones – January 1, 1980" edition for the latest reported data from Uganda.

709 Data originally reported for the January 1, 1979 TWT's edition. (Sierre Leone)

715 Palau reported their seventh most frequently called country as Federal States of Micronesia.

716 Data originally reported for January 1, 1980 TWT's edition. (Sao Tome and Principe)

717 Data originally reported for January 1, 1980 TWT's edition. (Uganda)

718 Data originally reported for January 1, 1980 TWT's edition. Also Uganda reported at that time, that the data was a calculated figure.

720 Data originally reported for the January 1, 1980 TWT's edition. (Uganda).

721 Population, 1978 data. Source: Countries of the World and Their Leaders Yearbook 1981 as published by Gale Research Company; Detroit, Michigan, U.S.A. (Upper Volta)

723 "The World's Telephones, January 1, 1980" edition reported 57,863 telephones, 95 percent automatic, 100 percent government operation; 40,911 main telephones 22,177 connecting to U.S. via ISD; 17,012 total business telephones and 40,851 total residence telephones; 7,500 PBX's telephones, 105 public telephones, 41,638 subscriber lines and 2,800 employees for Nicaragua.

Population data originally reported for the January 1, 1980 TWT's edition. (Zaire)

Notes to the Tables (continued 727–787)

Missing numbers represent notes that were consolidated or not required

727 Data originally reported for January 1, 1980 TWT's edition. (Zambia)

730 Data originally reported for January 1, 1980 TWT's edition. (Zambia)

731 Data originally reported for January 1, 1980 TWT's edition. (Nicaragua)

732 Data originally reported for January 1, 1980 edition of TWT's.

733 Data originally reported for January 1, 1980 edition of TWT's.

735 Data originally reported for January 1, 1980 edition of TWT's. (Haiti)

737 Data originally reported for January 1, 1980 edition of TWT's. Total population data was reported as 1974 census. (Honduras)

738 Data originally reported for the January 1, 1980 edition of TWT's. (Nicaragua)

741 Data was originally reported for the January 1, 1980 edition of TWT's.

742 Data was originally reported for the January 1, 1980 edition of TWT's.

745 "The World's Telephones – January 1, 1980" edition reported the following data for Suriname. 21,262 telephones, 6.1 per 100 population, 100 percent automatic, government operation, 14,862 main telephones, 6,400 PBX telephones, 88 coin box telephones, 14,406 subscriber lines, 119 employees.

746 Data originally reported for the January 1, 1980 edition of TWT's.

747 Data originally reported for the January 1, 1980 edition of TWT's.

748 Reported originally for the January 1, 1980 edition of TWT's. (Suriname)

749 Data originally reported for the January 1, 1980 edition of TWT's. (Venezuela)

750 Data originally reported for the January 1, 1980 edition of TWT's. (Venezuela)

751 Data reported for January 1, 1980 edition of TWT's. (Indonesia's area and Population data)

753 Data originally reported for the January 1, 1980 edition of TWT's.

754 Data originally reported for the January 1, 1980 edition of TWT's.

755 Telephone Engineer and Management Directory, 1981-82, a Harcourt Brace Jovanovich Publication reported 76,000 telephones (63,000 dial, 13,000 common battery, including magneto), for Bangladesh.

756 Data originally reported for the January 1, 1980 edition of TWT's.

759 Data originally reported for the January 1, 1980 edition of TWT's.

761 Data originally reported for the January 1, 1980 edition of TWT's. (Luxembourg)

762 Data originally reported for the January 1, 1980 edition of TWT's. (Monaco)

763 Monaco is actually reported as 1.5 square kilometers.

764 Monaco, an independent principality of 453 acres, is divided into three sections: Monaco-Ville, La Condamine and Monte Carlo. Fontvielle, the industrial area in La Condamine, is often considered a fourth section.

765 Data originally reported for the January 1, 1980 edition of TWT's. (Monaco)

766 Of this figure, 1,048,663 pulse metered units were reported by CPTSA of Lima.

767 5,235 calls were reported by ENTEL.

768 United States was reported to be the 1st most frequently called country by all the Peruvian telephone companies responding.

769 Venezuela was reported to be the 2nd most frequently called country by the Peruvian telephone companies responding.

770 Argentina was reported to be the 3rd most frequently called country by CPTSA of Lima. (Peru)

771 CPTSA of Lima reported Chile as their 6th most frequently called country. (Peru)

772 CPTSA of Lima reported Brazil as their 7th most frequently called country. (Peru)

773 CPTSA of Lima data only. (Peru)

774 Data reported by Compania Peruana De Telefonos S.A. (CPTSA of Lima, Peru)

775 CPTSA of Lima data only. (Peru)

776 Refer to note 781.

779 For telephone data for Suriname's principal cities, please refer to "The World's Telephones – January 1, 1980" edition; Table 13, page 63.

780 Represents total area for Saint Christopher-Nevis-Anguilla.

781 Data originally reported for January 1, 1980 edition of TWT's. (Anguilla).

782 For the latest reported telephony data for Monaco, please refer to "The World's Telephones – January 1, 1980" edition.

783 The North American Telephone Association reported the U.S. Interconnect Industry (Non-Telephone Company provided) to have an estimated 5,430,000 business telephone instruments in service as at December 31, 1980. This figure is included in the total telephone count.

The North American Telephone Association (NATA) is a national trade organization representing more than 350 manufacturers, suppliers and distributors of business communications equipment, (key, PBX, and related terminal equipment) in the United States.

Over 80 percent of NATA's numbers are contractors – companies which sell, install and service business telecommunications equipment for end users. The remaining numbers are made up of manufacturers and wholesale suppliers of this equipment.

[184] Represents a daily average of 717,175,500 messages.

[185] Represents a daily average of 59,707,800 messages, of which 93.9% were customer dialed.

[186] Represents a daily average of 1,358,000 messages, and includes all messages to Canada, Mexico, Alaska and Hawaii. AT&T Long Lines – Overseas Dept.; Economic Research, Morris Plains, N.J. reported for the year 1980 241,000,000 two-way overseas messages; for a growth factor of 32.7% over the 1979 volume. (Note: Overseas in this context is defined as all calls to and from the 48 contiguous United States to all points outside these states, except to Canada and Mexico.)

Additionally, for 1980, 45.5% of the 73,500,000 U.S. originated messages to all points throughout the world (except Alaska, Canada, Caribbean, Hawaii, and Mexico) were subscriber dialed (ISD).

Overseas Telephone Service*

	Two way messages			Two way messages	
	Quantity	Growth %		Quantity	Growth %
1927	11,753	–	1953	1,440,317	5.6
1928	22,665	92.8%	1954	1,529,152	6.2
1929	30,323	33.8	1955	1,742,368	13.9
1930	33,821	8.2	1956	2,024,117	16.2
1931	33,253	1.3	1957	2,421,332	19.6
1932	27,971	(15.9)	1958	2,687,836	11.0
1933	30,195	8.0	1959	3,088,645	14.9
1934	26,665	(11.7)	1960	3,713,183	20.2
1935	28,059	5.2	1961	4,365,020	17.6
1936	48,429	72.6	1962	4,914,262	12.6
1937	75,010	54.9	1963	5,290,460	7.7
1938	75,058	0.1	1964	6,382,127	20.6
1939	76,189	1.5	1965	8,108,030	27.0
1940	73,429	(3.6)	1966	9,931,918	22.5
1941	116,680	58.9	1967	12,332,231	24.2
1942	135,196	15.9	1968	15,166,091	23.0
1943	153,799	13.8	1969	20,800,303	37.1
1944	173,799	12.8	1970	26,305,694	26.5
1945	360,341	107.8	1971	32,245,147	22.6
1946	631,665	75.3	1972	40,225,532	24.7
1947	664,273	5.2	1973	47,478,563	18.0
1948	797,531	20.1	1974	59,878,146	22.8
1949	852,865	6.9	1975	71,662,752	19.7
1950	1,000,184	17.3	1976	87,140,523	21.6
1951	1,263,362	26.3	1977	109,599,014	25.8
1952	1,363,775	7.9	1978	149,521,467	36.5
			1979	181,521,678	21.4
			1980	241,000,000	32.7
			1981	287,000,000	19.1

*Overseas in this context is defined as all calls to and from the 48 contiguous United States to all points outside these states, except to Canada and Mexico.

Source: AT&T Long Lines-Overseas Dept./Economic Research (Morris Plains, N.J.)

[187] This figure represents an average of the available data for EOY 1980 that indicated:

(A) U.S. originated messages to overseas locations, 45.5% were ISD.
(B) U.S. originated messages to Canada, 95.6% were ISD.
(C) U.S. originated messages to Mexico, 62.9% were ISD.

As at EOY 1980, some 43 million customers/subscribers in 4,370 cities in the United States could dial direct (IDD/IDDD/ISD) to 74 overseas countries. (The number of U.S. cities was approximately 5,400 as at EOY 1981, and the number of countries/territories was about 96.)

Notes to the Tables (continued 788–859)

Missing numbers represent notes that were consolidated or not required

788 Canada and Mexico are the first and second most frequently called countries from the United States by message volume due to proximity.

95.6% of all messages (U.S. originated) to Canada were customer dialed.

62.9% of all messages (U.S. originated) to Mexico were customer dialed.

54% of all messages (U.S. originated) to the United Kingdom were ISD.

ALASCOM (Alaska's long lines carrier) reported that for 1980, the following countries were the most frequently called by Alaskans.

1. Canada; 2. Germany, Fed. Rep.; 3. United Kingdom; 4. Japan; 5. Korea, Rep. of; 6. Philippines; 7. Mexico, followed by Singapore and Italy.

The Hawaiian Telephone Company reported the following as the most frequently called countries by Hawaiian subscribers in 1980.

1. Canada; 2. Japan, Australia; 4. Germany, Fed. Rep.; 5. Philippines; 6. Korea, Rep. of; 7. Guam

789 39% of all messages (U.S. originated) to the Federal Republic of Germany were ISD.

790 51% of all messages (U.S. originated) to France were ISD.

791 40% of all messages (U.S. originated) to Italy were ISD.

792 38% of all messages (U.S. originated) to Venezuela were ISD.

793 38% of all messages (U.S. originated) to Japan were ISD.

794 49% of all messages (U.S. originated) to Colombia were ISD.
Columbia is followed by Switzerland and Greece for eighth and ninth most frequently called contries.
55% of all messages (U.S. originated) to Switzerland were ISD.
41% of all messages (U.S. originated) to Greece were ISD.

795 EOY 1980 – population data for U.S.

797 Coin telephones – unable to report a breakdown between public telephone stations and coin box telephones because of the descriptions used throughout the U.S. for each are not conclusive.

798 There may appear to be some discrepancy in the reported data due to varying interpretation concerning originated international traffic for the categories shown. Please refer to country code definition.

799 Of this figure, 194,000 employees were reported by the United States Independent Telephone Association (U.S.I.T.A.) to be employed by the 1,483 independent telephone (non-Bell system) companies. The balance represents employees of AT&T Company, including Western Electric Company, Bell Telephone Laboratories and AT&T International. An additional 50,000 total employees (no breakdown available) were reported by the North American Telephone Association.

The Alaskan Telephone Association reported a total of 2,826 employees (no breakdown available) full time employees supporting Alaska's public telephone service.

The Hawaiian Telephone Company reported a total of 4,659 full time employees; 1,003 management employees and 3,656 non-management employees.

800 Data represents employees classified as technicians, sales workers, office and clerical; skilled, semi-skilled, and unskilled workers, and service employees. 165,714 employees were reported by U.S.I.T.A. to be employed by the 1,483 Independent Telephone (Non-Bell system) Companies.

801 Data represents employees classified as officials, managers, professionals and semi-professionals. 28,286 employees were reported by U.S.I.T.A. to be employed by the 1,483 Independent Telephone (Non-Bell system) Companies.

802 The North American Telephone Association (NATA) reported the U.S. Interconnect Industry (Non-Telephone Company provided) to have an estimated 5,430,000 business telephone instruments in service as at December 31, 1980. At December 31, 1980, NATA reported for 1980, the average number of instruments per PBX systems was 108, and that Key System ratio was 13 instruments per system.

803 Please refer to "The World's Telephones – January 1, 1980" edition for the latest data reported from Sao Tome and Principe.

805 Telephone Engineer and Management Directory, 45th year, 1981-82, a Harcourt Brace Jovanovich Publication reported the following for Mali: Government system, 7,800 telephones, 65.1 percent dial.

806 Number reported for 1979. (Australia)

807 Includes interurban pulse metered data.

808 Represents 22,000 minutes.

809 Actually reported as 7,440 for population. (Turks and Caicos Islands)

810 Includes PBX telephones. (Turks and Caicos Islands)

811 Includes CCBS and PBX telephones.
Includes CCBS and PBX telephones.
The Turks and Caicos Islands Telephones reported that:
CCBS telephones are 7022 coin telephones.

Push Buttons:	The elegant Deltaphone with an adjustable warble tone and the push button telephone with a bell ringing.
Deltaphones: (D.E.L.S.)	A beautiful shaped telephone which does all the things a normal looking telephone does, but with a little more style. It's lighter, it has a volume control on its electronic calling tone.

812 Estimated (TWT's) based on reported number of main telephones, reported by Turks and Caicos Islands.

813 All data reported as at June 30, 1981. (Australia) All quoted data relate to "financial year" 1 July 1980 to 30 June 1981.

814 Telephone Engineer and Management Directory, 45th year, 1981-82 edition, a Harcourt Brace Jovanovich Publication reported for Mauritania 5,200 telephones, (3,300 dial and common battery), 5 central offices.

815 Please refer to "The World's Telephones – January 1, 1980" edition for the latest reported data from Morocco.

816 Please refer to "The World's Telephones – January 1, 1979" edition for the latest reported data from Senegal.

818 Includes PBX telephones. (Reunion)

819 Estimated (TWT's) based on number of reported main telephones reported by Reunion.

820 Please refer to "The World's Telephones – January 1, 1980" edition for the latest reported data for Liberia.

821 Including the interurban and international telephone calls effected automatically. In the course of the year 1979 there has been realized the change of the frequency counting rates in the interurban and international telephone traffic, (Czechoslovakia).

822 Telephone Engineer and Management Directory, 45th year, 1981-82 issue, a Harcourt Brace Jovanovich Publication reported the following for Lesotho; 5,916 telephones, (5,720 dial, 196 magneto) 14 manual exchanges and 11 automatic exchanges.

824 Please refer to "The World's Telephones – January 1, 1980" edition for the latest reported data for the Ivory Coast. Principal cities' data may be found on page 54.

825 Includes PBX telephones. (St. Pierre and Miquelon.)

826 Estimated (TWT's) based on number of reported main telephones reported for St. Pierre and Miquelon.

827 Please refer to "The World's Telephones – January 1, 1980" edition for the latest data reported from Mozambique.

829 Includes PBX telephones. (Martinique.)

830 Estimated (TWT's) based on number of reported main telephones reported by Martinique.

831 Includes interurban pulse metered.

833 Includes PBX telephones. (French Guiana.)

834 Estimated (TWT's) based on reported number of main telephones reported by French Guiana.

835 Reported as taxable/changeable base and includes interurban pulse metered.

837 Includes PBX telephones. (Guadeloupe.)

838 Estimated (TWT's) based on number of reported main telephones reported by Guadeloupe.

839 US Government owned, contractor operated. (Kwajalein.)

840 Please refer to "The World's Telephones – January 1, 1979" edition for the latest data reported by Niger.

841 See United States.

842 All international outgoing calls via United States via local Kwajalein operator.

843 Please refer to "The World's Telephones – January 1, 1980" edition for the latest data reported by Nigeria.

844 World Zone totals for 1978, 1977, 1976 and 1971 are estimated figures, due to being reconstructed by The World's Telephones' publication staff from earlier editions to fit the world zone plan. The World Zones grand total may not match the regions grand totals for the aforementioned years for reasons unknown.

845 Reported as minutes.

846 French Polynesia – Population data reported for Papeete, Mahina, Punaauia, Tahiti, Taravao and Papara.

847 Please refer to "The World's Telephones – January 1, 1979" edition for the latest data reportable from Rwanda.

849 January 1, 1980 data. (British Virgin Islands population data.)

850 January 1, 1980 data, (Roadtown, British Virgin Islands).

851 Telephony's Directory and Buyer's Guide 1981-1982 issue, published by Telephony Publishing Corporation reported the following data for the British Virgin Islands: Private Administration, 3,046 Telephones, 100% dial, 4 central office exchanges, 1821 single party lines, 12 public telephones, and 80 PBX's. (For additional data please refer to the World's Telephones – January 1, 1980 edition.)

852 Telephony's Directory and Buyer's Guide 1981-1982 issue, published by Telephony Publishing Corporation reported the following data for St. Lucia: a private administration, 7,856 telephones, 100% dial, 9 central office exchanges, 4,360 single-party lines, 21 public telephones and 94 PBX's. (For additional data, please refer to The World's Telephones – January 1, 1980 edition.)

853 January 1, 1980 data. (St. Lucia's population data.)

854 January 1, 1980 data; Castries, St. Lucia.

855 Please refer to note 852.

856 Telephony's Directory and Buyer's Guide, 1981-1982 issue, published by Telephony Publishing Corporation reported the following data for St. Kitts-Nevis: a Government Administration, 33 employees, 2,391 telephones, 100 dial, 4 central office exchanges and 7 public telephones. (For additional information, please refer to The World's Telephones – January 1, 1979.)

859 "Please see note 856."

Notes to the Table (continued 860–885)

Missing numbers represent notes that were consolidated or not required

860 Telephony's Directory and Buyer's Guide 1981-1982 issue, published by Telephony Publishing Corporation reported the following data for St. Vincent: Private Administration, 5,378 telephones, 100% dial, 8 central office exchanges, 3,482 single party lines, 30 publish telephones and 77 PBX's. (For additional information, please refer to "The World's Telephones – January 1, 1980 edition.)

861 Represents data reported for January 1, 1980 edition. (St. Vincent.)

862 Represents the area for St. Vincent and the Grenadines.

863 January 1, 1980 data; Kingstown, St. Vincent.

864 Telephony's Directory and Buyer's Guide 1981-1982, published by Telephony Publishing Corporation reported the following data for St. Vincent: Private Administration, 5,378 telephones, 100% dial, 8 central office exchanges, 3,482 single party lines, 30 public telephones and 77 PBX's.

865 The World's Telephones, January 1, 1979 edition reported the following data for Trinidad and Tobago:

Total telephones – 77,639
Telephones per 100 population – 6.8
Automatic – 100%
Government Operation – National
Main telephones – 41,193
EXT and PBX – 36,446
Business telephones – 41,213
Residence telephones – 36,426
Port-of-Spain – 36,744 total telephones
San Fernaco – 10,782 total telephones

868 The World's Telephones January 1980 edition Preface.

Rapid growth continues to characterize the world's telephony development as there was a net increase of 23.9 million telephones in the world during 1979, bringing the world total for reported telephones to 472,137,000 at January 1, 1980.

The unadjusted percent increase of 5.3 compares the total telephones reported from all responding administrations for the end of 1979 with the total reported one year earlier.

Most, but not all, respondents participated in both reporting periods.

The adjusted percent increase of 11.1 excludes data from countries not represented in both reporting periods.

In the ten years between 1969 and 1980, the number of reported telephones increased by 229.5 million, or an unadjusted percent increase of 94.5. (No current data is available on the adjusted percent increase.)

Based on the total population of the areas submitting telephone counts, the ratio of reported total telephones per 100 people increased during 1979 by 1.4%, from 15.0% to 16.4%, unadjusted. The adjusted ratio increased by 1.6% from 15.1% to 16.7%.

Noncorroborated information gathered from several sources suggests that the world's non-reported telephones (countries not responding to the World's Telephone's questionnaire and the non-telephone company provided instruments in service) could be estimated at 15.9 million. Adding these telephones to the world's reported total, we find that during 1979 the world may have exceeded a ratio of 11 telephones for every 100 people.

The cooperation of telephone administrations and telephone operating companies throughout the world has made this publication possible. Grateful acknowledgment is made of their assistance and cooperation.

869 The World's Telephones January 1979 edition Preface.

There was a net increase of 25.2 million telephones in the world during 1978, bringing the world total for reported telephones to 448,250,000 on January 1, 1979. This was the largest numerical gain ever reported and represents the first time that the annual increase in telephones worldwide reached and exceeded the 25 million mark.

The unadjusted growth rate amounted to 5.9%. However, adjusting for the difference in the response rate, the growth rate becomes 6.4%.

In the 10 years between 1968 and 1978, the number of reported telephones increased by 210.3 million, or 88.3% (unadjusted).

Based on the total population of the areas submitting telephone counts, the ratio of reported total telephones per 100 people increased during 1978 by 0.3%, from 14.7% to 15.0%.

870 The World's Telephones January 1978 edition Preface.

The number of telephones in the world grew for 20 consecutive years (1955-1975) at an annual rate of over 6%. In 1975, however, this growth began to taper off to 5.9% and in 1976 to 4.9%.

Then in 1977, the growth rate of the world's reported telephones climbed back to better than 6%. This represented a growth equal to nearly twice the current rate of world population growth.

The first day of 1978 saw 423,082,000 reported telephones in the world. This was 24.9 million more than on January 1, 1977. Based on the total populations of those areas submitting telephone counts, we find that the ratio of telephones per 100 people increased during 1977 by 0.2. Adding an estimate of three million telephones to represent the countries which did not report, we find that during 1977 the world may have exceeded a ratio of 10 phones for every 100 people.

To summarize the tremendous growth in telephones worldwide; in the 10 years between 1967 and 1977, the number of reported telephones increased by 200.7 million or 90.2%.

[71] The World's Telephones January 1977 edition Preface.

For 20 consecutive years - 1955 to 1975 - the number of telephones in the world grew at an annual rate of more than six per cent. In 1975, however, the growth rate declined to 5.9 percent, which continued through 1976. The data assembled for this edition of "The World's Telephones" shows that during 1976 the rate of growth declined to 4.9 per cent.

While the growth rate has slowed, the total number of telephones in the world is still rising. On Jan. 1, 1977, there were 398,182,000 reported telephones in the world. This is an increase of more than 18.6 million over Jan. 1, 1976. From 1967 to 1977, the number of the world's telephones increased by 189.7 million or 91.0 per cent.

[72] The World's Telephones January 1976 edition Preface.

After 20 consecutive years of annual growth in excess of 6%, the 1975 increase in the world's telephone growth slowed to 5.9%. The total number of telephones as of January 1, 1976 was 379.5 million; an increase of 21.1 million. The ten year growth was 184.5 million telephones, an increase of 94.6%.

During 1975, China (Taipei), Hong Kong and Turkey joined the ranks of those countries with more than one million telephones in service.

[73] The World's Telephones January 1971 Preface.

By January 1, 1971, the number of telephones in the world had increased 17.6 million over 1969 to a total of 272.7 million. This annual increase of 6.9 per cent is consistent with the rapid growth pattern established during the past decade.

The number of countries having more than one-half million telephones has reached thirty-seven, with Israel being the latest to reach this distinction. Still leading the world in the number of telephones is the United States with 120.2 million in service. Japan, with 26.2 million telephones is second, followed by: the United Kingdom, 15 million and West Germany, with 13.8 million.

There are now fifteen cities in the world with more than one million telephones, of these, seven are located in the United States.

In telephone use, the United States has again retained its lead with 779 telephone conversations per person. Canada and Sweden are second and third, with 739 and 674 respectively.

As the world shrinks in terms of international communications it becomes increasingly important for the customer to be able to reach all points speedily and conveniently. The number of overseas telephone circuits from the United States has increased over 500 per cent in the last ten years to meet the greatly accelerated demand for overseas calls. This demand resulted in more than 26 million messages to and from the United States in 1970, over seven times the number completed in 1960.

The data in "The World's Telephones" have taken a year to collect. All figures reflect the status as of January 1, 1971.

As in the past, this report is made possible only by the generous help of many telephone administrations throughout the world.

[74] Estimated, due to being reconstructed by "The World's Telephones" publication staff from earlier editions to fit world numbering zone plan. The World Zone totals may not match regional totals from earlier editions for reasons unknown.

[75] The World's Telephones January 1981, note to the tables 569.

This figure is considered to be an incomplete world total due to only 67.1% of the world's telephone administrations and operating companies supplying data for this edition. The non-reported telephones connected to various national public telephone networks throughout the world are conservatively estimated to total 15,827,000, for an estimated world total of 487,966,000 telephones.

[76] 78.8% of the administrations responded to the World's Telephones request for data for the January 1, 1979 edition.

[77] A number shown in parenthesis, after the name of a most frequently called country, marks an interzonal destination for calls from the respective calling area. The number indicates the World Zone for the frequently called area.

Those most frequently called countries with no number in parenthesis after their listing are intrazonal destinations.

[78] Telephony's Directory and Buyer's Guide for the Telecommunications Industry, 86th Annual Edition, 1981-1982 Issue reported 42,100 telephones, 37,000 dial, 185 central office exchanges, 229 public telephones, 280 PBX's with crossbar and magneto switching for Burma.

[79] Please refer to "The World's Telephones - January 1, 1979" edition for the latest reported data from Sierre Leone.

[80] Malawi reported that their data includes semi-automatic country codes.

[81] Please refer to "The World's Telephones - January 1, 1979" edition for the latest data reported from Upper Volta.

[82] Please refer to "The World's Telephones - January 1, 1980" edition for the latest reported data from Zaire.

[83] Please refer to "The World's Telephones - January 1, 1980" edition for the latest reported data from Zambia.

[84] Canada - incomplete data based on statistics supplied by the eight major telephone companies in Canada. There are over 600 Canadian telephone companies. The eight companies account for approximately 90% of the telephones in service.

[85] Represents Alaskan data only and includes interurban pulse metered traffic.

NUMBERING PLAN FOR THE INTERNATIONAL TELEPHONE SERVICE (1)

List of country codes for the international semi-automatic and automatic service incorporating amendments proposed by the World Plan Committee, Paris, April 1980

World numbering ZONE 1
(Integrated numbering area)

Canada	Jamaica	British Virgin Islands	Grenada
St. Pierre & Miquelon	Barbados	Bermuda	Montserrat
United States (incl.	Antigua	Bahamas	St. Kitts
Puerto Rico & Virgin Is.)	Cayman Islands	Dominican Rep.	St. Lucia
			St. Vincent

World numbering ZONE 2

Egypt	20	Benin	229	Zaire	243	Mozambique	258
Morocco		Mauritius	230	Angola	244	Zanzibar	259
Algeria	21[a]	Liberia	231	Guinea-Bissau	245	Zambia	260
Tunisia		Sierre Leone	232	Seychelles	248	Madagascar	261
Libya		Ghana	233	Sudan	249	Reunion	262
Gambia	220	Nigeria	234	Rwanda	250	Rhodesia (Zimbabwe)	263
Senegal	221	Chad	235	Ethiopia	251	Namibia	264
Mauritania	222	Central African Rep.	236	Somali	252	Malawi	265
Mali	223	Cameroon	237	Afars & Issas (Djibouti)	253	Lesotho	266
Guinea	224	Cape Verde	238	Kenya	254	Botswana	267
Ivory Coast	225	Sao Tome and Principe	239	Tanzania	255	Swaziland	268
Upper Volta	226	Equatorial Guinea	240	Uganda	256	Comoros	269
Niger	227	Gabon	241	Burundi	257	South Africa	27
Togo	228	Congo	242				

21[a] Integrated numbering area with subdivisions:
Morocco: 210, 211, 212 - Algeria: 213, 214, 215 - Tunisia: 216, 217 - Libya: 218, 219.

World numbering ZONES 3 and 4

Greece	30	Yugoslavia	38	Denmark	45	Ireland	353
Netherlands	31	Italy	39	Sweden	46	Iceland	354
Belgium	32	Romania	40	Norway	47	Albania	355
France	33[a]	Switzerland	41[a]	Poland	48	Malta	356
Monaco	33[a]	Liechtenstein	41[a]	Germany	49	Cyprus	357
Spain	34	Czechoslovakia	42	Gibralter	350	Finland	358
Hungary	36	Austria	43	Portugal	351	Bulgaria	359
German Dem. Rep.	37	United Kingdom	44	Luxembourg	352		

[a] Integrated numbering plan.

World numbering ZONE 5

Belize	501	Haiti	509	Chile	56	Ecuador	593
Guatemala	502	Peru	51	Colombia	57	Guiana	594
El Savador	503	Mexico	52	Venezuela	58	Paraguay	595
Honduras	504	Cuba	53	Guadeloupe	590	Martinique	596
Nicaragua	505	Argentina	54	Bolivia	591	Suriname	597
Costa Rica	506	Brazil	55	Guyana	592	Uruguay	598
Panama	507					Netherland Antilles	599

World numbering ZONE 6

Malaysia	60	Guam	671	Solomon Islands	677	Western Samoa	685
Australia	61	Portuguese Timor	672	New Hebrides (Vanuatu)	678	Kiribati	686
Indonesia	62	Brunei	673	Fiji	679	New Caledonia and Dep.	687
Philippines	63	Nauru	674	Wallis and Futuna	681	Tuvalu	688
New Zealand	64	Papua New Guinea	675	Cook Islands	682	French Polynesia	689
Singapore	65	Tonga	676	Niue Islands	683	(Marianna Islands	670)[568]
Thailand	66			American Somoa	684		

World numbering ZONE 7

Union of Soviet Socialist Republics: 7

World numbering ZONE 8

Japan	81	Hong-Kong	852	Laos	856	Bangladesh	880
Korea, Rep. of	82	Macao	853	China	86		
Vietnam	84	Kmer Rep. (Kampuchea)	855				

World numbering ZONE 9

Turkey	90	Maldives	960	Saudi Arabia	966	United Arab Emirates	971
India	91	Lebanon	961	Yemen (Aden)	967	Israel	972
Pakistan	92	Jordan	962	Oman	968	Bahrain	973
Afghanistan	93	Syria	963	Yemen (Sanaa)	969	Quatar	974
Sri Lanka (Ceylon)	94	Iraq	964			Mongolia	976
Burma	95	Kuwait	965			Nepal	977
						Iran	98

[a] E.A.U.: Abu Dhabi, Ajman, Dubai, Fujairah, Ras el Khaimah, Sharjah, Umm al Qiwain.

(1) Reference: CCITT Yellow Book Fascicle II.2, Recommendation E.163.

NOTICE

Those readers who desire continuity of data may want to retain copies of previously published editions. This is recommended because:

- Not all countries are able to report data annually.
- Data from Telephony Development Table may be useful for estimating when more current data is not available.
- Each current edition reports Corrections and Omissions to the prior edition.